

NACOmatic

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Contact:

Doug Ranz

248-318-0011

NACOmatic@hotmail.com

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ID	Min	Alt#1	-	5	CVO	-	374	MWH	-	626
ID	Min	TO#1	-	13	CYS	-	897	MYL	-	105
MT	Min	Alt#1	-	146	DEW	-	593	NOW	-	675
MT	Min	TO#1	-	154	DGW	-	909	NUW	-	639
OR	Min	Alt#1	-	320	DIJ	-	72	OKH	-	652
OR	Min	TO#1	-	328	DLN	-	214	OLF	-	317
WA	Min	Alt#1	-	543	DLS	-	538	OLM	-	653
WA	Min	Rdr#1	-	551	EAN	-	977	OMK	-	660
WA	Min	TO#1	-	554	EAT	-	827	ONO	-	451
WY	Min	Alt#1	-	845	ECS	-	949	ONP	-	437
WY	Min	Rdr#1	-	853	ELN	-	596	ORS	-	595
WY	Min	TO#1	-	856	EMM	-	941	OTH	-	443
		1S3	-	216	EPH	-	600	PAE	-	604
		32S	-	314	EUG	-	383	PDT	-	454
		3S8	-	397	EUL	-	64	PDX	-	471
		3U3	-	176	EVW	-	911	PIH	-	122
		42S	-	301	FBR	-	916	PLU	-	679
		6S5	-	237	FHR	-	617	PNA	-	950
		6S8	-	269	GCC	-	918	POY	-	953
		79S	-	218	GCD	-	400	PSC	-	662
		7S0	-	303	GDV	-	223	PUW	-	676
		7V6	-	926	GEG	-	763	PWD	-	297
		8S1	-	298	GEY	-	923	PWT	-	585
		9S2	-	307	GGW	-	219	RBG	-	526
		9S9	-	416	GNG	-	75	RDM	-	515
		AFO	-	878	GPI	-	261	RIW	-	956
		ALW	-	818	GRF	-	611	RKS	-	961
		AOC	-	35	GTF	-	224	RLD	-	686
		AST	-	351	HIO	-	461	RNT	-	680
		AWO	-	576	HLN	-	244	RWL	-	954
		BDN	-	367	HQM	-	619	RXE	-	129
		BFI	-	691	HRI	-	398	S01	-	211
		BHK	-	177	HVR	-	240	S12	-	350
		BIL	-	180	IDA	-	86	S21	-	536
		BKE	-	364	JAC	-	929	S33	-	418
		BLI	-	580	JER	-	94	S39	-	511
		BNO	-	372	KLS	-	624	S43	-	762
		BOI	-	42	LAR	-	944	S50	-	578
		BPI	-	882	LGD	-	412	S59	-	274
		BTM	-	200	LKV	-	414	S67	-	119
		BVS	-	589	LMT	-	402	S80	-	78
		BYG	-	884	LVM	-	276	S87	-	145
		BYI	-	61	LWS	-	97	SAA	-	967
		BZN	-	193	LWT	-	272	SBX	-	308
		CII	-	206	M46	-	207	SDY	-	310
		CLM	-	671	M75	-	280	SEA	-	705
		CLS	-	592	MFR	-	423	SFF	-	780
		COD	-	905	MLS	-	282	SHN	-	759
		COE	-	67	MMV	-	419	SHR	-	969
		CPR	-	886	MSO	-	286	SKA	-	790
		CTB	-	212	MUO	-	108	SLE	-	528

SMN	-	131
SPB	-	534
SUN	-	81
SZT	-	134
TCM	-	797
TIW	-	811
TMK	-	541
TOR	-	973
TTD	-	506
TWF	-	136
U02	-	37
U68	-	908
U76	-	117
UA0	-	358
VU0	-	817
W43	-	928
WRL	-	978
WYS	-	315
YKM	-	830

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

- ¹NA when local weather not available.
²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.
³Category C, 800-2¾; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

- ¹Category D, 800-2¾.
²NA when local weather not available.
³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

- ¹Categories A,B, 1100-2; Categories C,D,
1100-3.
²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

- ¹NA when local weather not available.
²Category D, 900-2¾.
³Categories A,B, 1900-2; Categories C,D,
1900-3.
⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¾.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

- ¹Category D, 800-2¾.
²Categories A,B,C,D, 800-2¾.
³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L¹
RNAV (GPS) Y Rwy 10R²
RNAV (GPS) Y Rwy 28L²
VOR/DME or TACAN Rwy 10L¹
VOR/DME or TACAN Rwy 28L¹

- ¹Category E, 900-3.
²Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¾; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL .. RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹

- NA when local weather not available.
¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY **RNAV (GPS) Rwy 31¹**
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2½.

²Category C, 800-2¼; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI **VOR-A**
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL **NDB Rwy 10¹**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI **VOR Rwy 30**
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY **ILS Y Rwy 15¹**
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL **ILS or LOC Rwy 3**
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2¼; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2¼; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD **ILS or LOC Rwy 27¹**
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL **RNAV (GPS) Rwy 22¹**
VOR or GPS-A²

¹Category C, 800-2¼; Category D, 200-2¼.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD **ILS or LOC/DME Rwy 5**
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI **VOR-A**
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK **RNAV (GPS) Rwy 34**
NA when local weather not available.

DILLON, MT

DILLON **VOR or GPS-A,1500-3**
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY **VOR Rwy 29**
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND **RNAV (GPS)-A**
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD **RNAV (GPS) Rwy 25¹**
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2¼.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI RNAV (GPS) Rwy 3¹
RNAV (GPS) Rwy 21²
VOR/DME Rwy 3¹
VOR Rwy 21¹

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2¼; Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD ILS or LOC/DME Z Rwy 16R¹
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L^{1,2}
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2¼;
Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD ILS or LOC/DME Rwy 23
Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) ILS or LOC/DME Rwy 16R
NA when control tower closed.
NA when local weather not available.

FORT BENTON, MT

FORT BENTON RNAV (GPS) Rwy 23
NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY ILS or LOC Rwy 34^{1,2}
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2¼;
Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¼; Category D,
1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¼; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL VOR Rwy 12
Categories A,B, 900-2; Categories C,D, 900-3.
VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON
COMMUNITY NDB or GPS Rwy 12,900-2¾

GOODING, ID

GOODING MUNI RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA NDB Rwy 15
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL NDB Rwy 34
Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY RNAV (GPS)-A
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL RNAV (GPS) W Rwy 31
Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY VOR Rwy 26
Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁵
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷⁹
 VOR-A⁸
 VOR/DME-B⁵

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY

JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

NAME ALTERNATE MINIMUMS

JEROME, ID

JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KLAMATH FALLS, OR

KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2½.

LEWISTON, ID

LEWISTON-NEZ PERCE
 COUNTY ILS Rwy 26¹²
 RNAV (GPS) Rwy 8³
 RNAV (GPS) Rwy 12³
 RNAV (GPS) Rwy 26³
 VOR Rwy 8⁴
 VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI RNAV (GPS) Rwy 7
 VOR Rwy 7

Category D, 800-2½.

NAME ALTERNATE MINIMUMS

LIVINGSTON, MT

MISSION FIELD **VOR/DME-B¹**
VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²Categories A, B, 2200-2; Categories C,D,
2200-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI **ILS or LOC Rwy 22**
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2¼.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD **ILS or LOC/DME Rwy 14¹²**
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D,
900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D,
2300-3.

⁴Categories A, B, 1100-2; Categories C, D,
1100-3.

⁵Categories A, B, 1400-2; Category C, D
1400-3.

MISSOULA, MT

MISSOULA INTL **ILS Rwy 11¹**
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11², 800-2½
VOR/DME or GPS-A, 2000-3
VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D,
1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... **ILS or LOC Rwy 32R¹**
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

NAME ALTERNATE MINIMUMS

NEWCASTLE, WY

MONDELL FIELD **VOR or GPS Rwy 31**
NA except for operators with approved weather
reporting service.
Categories A,B, 900-2; Categories C,D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL **ILS or LOC Rwy 4¹**
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS, Categories A,B, 800-2; Category C, 900-
2¼, Category D, 1000-3. LOC, Category C,
900-2¼, Category D, 1000-3.

²Category C, 900-2¼; Category D, 1000-3.

³Categories A,B, 1100-2; Categories C,D,
1100-3.

⁴Categories C,D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG **RNAV (GPS) Rwy 7**
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL **ILS or LOC Rwy 17¹²**
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²³
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

³Category D, 800-2¼.

ONTARIO, OR

ONTARIO MUNI **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32

NA when local weather not available.

PASCO, WA

TRI-CITIES **ILS or LOC Rwy 21R¹²**
RNAV (GPS) Rwy 3L
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 21R
RNAV (GPS) Rwy 30
VOR Rwy 21R³
VOR/DME Rwy 30

NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D,
700-2¼. LOC, Category D, 800-2¼.

³Category D, 800-2¼.

²NA when Rawlins FSS closed.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
 COUNTY **RNAV (GPS) Rwy 35**
 NA when local weather not available.
 Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

ROCK SPRINGS, WY

ROCK SPRINGS SWEETWATER
 COUNTY **VOR-B**
 Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
 NA when local weather not available.
 Categories A, B, 1200-2; Category C, 1200-3;
 Category D, 1400-3.

SALEM, OR

MCNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2¾; Category D, 800-2½. LOC, Category C, 800-2¾; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
 AIRPARK **VOR/DME or GPS-A**
 Category B, 900-2; Category C, 1000-2¾;
 Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
 INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2¾.

SHERIDAN, WY

SHERIDAN
 COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
 Category D, 800-2¾.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2¾.

²Categories C, D, 800-2½.

SPOKANE, WA

FELTS FIELD **ILS/DME Rwy 21R¹**
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L³

¹Categories A, B, 1000-2; Category C, 1000-2¾.

²Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

³Categories A, B, 1000-2; Categories C, D, 1000-3

SPOKANE INTL **ILS or LOC Rwy 3¹**
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

¹ILS, Category D, 700-2.

²Category E, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI
DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.
Rwy 34, turn left. All aircraft climb direct CVO VOR/
DME and continue climb in CVO VOR/DME holding
pattern, (E, right turns, 261° inbound) to cross CVO
VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417'
per NM to 9000, or 2800-3 for climb in visual conditions.
Rwy 16, std. w/min. climb of 321' per NM to 10200, or
2800-3 for climb in visual conditions. **Rwy 22**, NA-
obstacles. **Rwy 34**, std. w/min. climb of 369' per NM to
9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing right
turn to 10200 via heading 130° and CPN VOR/DME R-
340 to CPN VOR/DME, continue climb-in-hold to 10200
(north, left turn, 166° inbound), or for climb in visual
conditions, cross Bowman Field Airport at or above 7700
then proceed via CPN R-309 to CPN VOR/DME,
continue climb-in-hold to 10200 (north, left turn, 166°
inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 16, climbing left turn to 10200 via heading 100° and
CPN VOR/DME R-335 to CPN VOR/DME, continue
climb-in-hold to 10200 (north, left turn, 166° inbound), or
for climb in visual conditions, cross Bowman Field
Airport at or above 7700 then proceed via CPN R-309 to
CPN VOR/DME, continue climb-in-hold to 10200 (north,
left turn, 166° inbound).

NOTE: **Rwy 16**, multiple trees beginning 865' from
departure end of runway, 243' left of centerline, up to 70'
AGL/5097' MSL. Rod on hangar 570' from departure
end of runway, 278' left of centerline, 54' AGL/5054'
MSL. Multiple trees beginning 787' from departure end
of runway, 165' right of centerline, up to 70' AGL/5098'
MSL. Multiple transmission lines beginning 4602' from
departure end of runway, 1664' right of centerline, 80'
AGL/5159' MSL. **Rwy 34**, multiple transmission lines
beginning 2242' from departure end of runway, 964' left
of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles.
DEPARTURE PROCEDURE: Use JATTS
DEPARTURE.

**ARLINGTON, WA****ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29,34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8,31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17**, NA. **Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8,13**, turn left.

Rwys 26,31,35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8,26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.



BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading 098° to 4600 before turning right.
NOTE: **Rwy 10L**, fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL (GOWEN FIELD)

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, turn left **Rwys 10L, 10R**, turn right. Climb on BOI R-214 within 20 NM to cross BOI VORTAC at or above MEA/MCA for direction of flight.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/ min. climb of 410' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 1**, Climbing right turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.
NOTES: **Rwy 1**, Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:
Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.
DEPARTURE PROCEDURE: Northbound aircraft:
Rwy 13, turn left. **Rwy 31**, climb straight ahead.
All aircraft proceed via SHR R-139 to SHR VORTAC. Southbound aircraft: **Rwy 13**, climb straight ahead. **Rwy 31**, turn right. **All aircraft** proceed via CZI R-319 to CZI VOR/DME.

BURLEY, ID

BURLEY MUNI

TAKE-OFF MINIMUMS: **All runways**, cross departure end of runway at or above 35' AGL.
DEPARTURE PROCEDURE: **All runways**, climb direct BURLEY (BYI) VOR/DME. Continue climb on R-305 within 10 miles to cross BYI VOR/DME: R-024 CW R-054 at or above 5500; R-055 CW R-240 at or above 8000; R-241 CW R-023 at or above 5900.
NOTE: **Rwy 2**, bridge 252' from departure end of runway, 513' left of centerline, 110' AGL/4195' MSL. Stack 2205' from departure end of runway, 857' right of centerline, 79' AGL/4236' MSL. Elevator 4092' from departure end of runway, 297' right of centerline, 133' AGL/4283' MSL. **Rwy 20**, antenna 523' from departure end of runway, 338' right of centerline, 43' AGL/4217' MSL. **Rwy 24**, tree 630' from departure end of runway, 521' right of centerline, 41' AGL/4215' MSL. Grain elevator 3106' from departure end of runway, 163' left of centerline, 137' AGL/4317' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)
ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.
DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.
All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.
NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR**BURNS MUNI**

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...

...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT**BERT MOONEY**

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL. **Rwy 29**, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID**CALDWELL INDUSTRIAL**

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY**CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)**

DEPARTURE PROCEDURE: **Rwys 3, 8, 12**, turn left.

All other runways, turn right. All aircraft climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA**CHEHALIS-CENTRALIA**

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY**CHEYENNE RGNL/JERRY OLSON FIELD**

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY**YELLOWSTONE RGNL**

TAKE-OFF MINIMUMS: **Rwy 4**, 1500-2 or std. with a min. climb of 250' per NM to 6800. **Rwy 22**, 1600-2 or std. with a min. climb of 340' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 4, 22**, turn left.

All aircraft climb direct COD VOR/DME. Climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above: COD R-350 CWR-170, 6000; or R-171 CWR-R-349, 11800.

COEUR D'ALENE, ID**COEUR D'ALENE-PAPPY BOYINGTON FLD**

TAKE-OFF MINIMUMS: **Rwy 5**, CAT A,B, 1700-2 or std. with a min. climb of 230' per NM to 4000. CAT C,D, 2600-2 or std. with a min. climb of 320' per NM to 5400.

DEPARTURE PROCEDURE: **Rwys 1, 5**, turn left, climb via COE R-005 to 5400, reverse course, continue climb direct COE VOR. **Rwy 19**, turn right. **Rwy 23**, turn left, climb via COE R-232 to 5000, reverse course, continue climb direct COE VOR.

COLSTRIP, MT**COLSTRIP (M46)****AMDT 2 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV) DEPARTURE. **Rwy 24**, use CONUK (RNAV) DEPARTURE.

CONRAD, MT**CONRAD**

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR**CORVALLIS MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY**NORTH BIG HORN COUNTY**

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA**DEER PARK**

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 360' per NM to 5600.

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading; **Rwy 22**, climbing left turn to heading 130°; **Rwys 4, 34**, climbing right turn to heading 210°; **All aircraft** intercept and continue climb via the 170° bearing from DPY NDB to intercept GEG R-006 to GEG VORTAC.

DILLON, MT**DILLON**

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwesterly bound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY**CONVERSE COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CWR R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CWR R-199 9600; R-200 CWR R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID**DRIGGS-REED MEMORIAL (DIJ)****AMDT 2 08157 (FAA)**

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA**ORCAS ISLAND (ORS)****AMDT 1 09351 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENSBURG, WA**BOWERS FIELD**

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA**EPHRATA MUNI (EPH)****AMDT 3 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles. DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn...**Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.

Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing: FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER, 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMD T 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA

..... **Rwy 15**, 300-1***Rwy 33**, 300-1**

*Or standard with minimum climb of 430/NM to 500.
**Or standard with minimum climb of 380/NM to 600.

Rwy 15 climb runway heading to 700 then climbing left turn direct GR LOM. **Rwy 33** climb runway heading direct GR LOM. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GR LOM climb on course. All others continue climb in GR holding pattern (Hold NW, RT, 147° inbound) to cross GR LOM at or above: 071° CW 134° bearing from GR LOM, 8500'; 261° CW 329° bearing from GR LOM, 1500.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/ min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°.

All aircraft continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/ min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1¾ or std. w/ min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence... **Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence... **Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence... **Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)

AMDT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.

DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading. **All aircraft** climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2¾ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)

AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1¾ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 1200-2 or std. with a min. climb of 320' per NM to 1300.

DEPARTURE PROCEDURE: Departure procedure limited to CAT A,B aircraft. **Rwy 30**, climb straight ahead to 1500 then climbing right turn direct LSO NDB. Continue climb in holding pattern (N, right turns, 171° inbound) to cross LSO NDB at or above 3000 direct BTG VORTAC or MEA for route of flight.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4,10,22,28**, NA- Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/ DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/ DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400.

Rwy 32, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14,25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800.

Rwy 30, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12,16**, climbing left turn direct LGD NDB, thence; **Rwys 30,34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKVR-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKVR-148 then via LKVR-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12,21**, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.
DEPARTURE PROCEDURE: **Rwy 22**, turn left.
All aircraft climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12, 900-2** or std. with a min. climb of 220' per NM to 6200.
DEPARTURE PROCEDURE: **Rwys 2, 30** turn left. **Rwys 7, 12, 20**, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.
Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.
NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.
Rwy 15, use EYSE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-
Environmental.
DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

ORIG-A 09043 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 298' per NM to 3900 or 1100-2 ½ for climb in visual conditions. **Rwy 22**, std. w/ a min. climb of 281' per NM to 3900 or 1100-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...
Rwy 22, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...
... for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.
DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD AFB (KTCM)

TACOMA, WA 09127

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windscock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/ 3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/ 3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/ 3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/ 3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11, 70'** AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400.
Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. **All aircraft** climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/ 4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/ 4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1. DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL. **Rwy 29**, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL. **Rwy 28R**, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. **All aircraft** climb via BTGR-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. **All aircraft** climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 28, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.

DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climbing heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thence ...
...Climb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/ min. climb of 310' per NM to 700. **Rwy 19**, std. w/ min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/ min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence... **Rwy 8**, climbing right turn direct PSC VOR/DME, thence... **Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence... **Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence...

...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL

DEPARTURE PROCEDURE: Aircraft departing RIW R-280 CW R-170 climb on course. All others climb to 6600, then continue climb direct RIW VOR/DME to cross RIW VOR/DME at or above 7500 before proceeding on course.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY

DEPARTURE PROCEDURE: Climb direct OCS VORTAC. Aircraft departing OCS R-205 CW R-170 climb on course. All others climb in the OCS holding pattern (E, right turns, 260° inbound) to cross OCS VORTAC at or above 7300.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL. **Rwy 13R**, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL.

Rwy 11, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
...1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
...climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD

TAKE-OFF MINIMUMS: **Rwys 3L, 3R**, std. w/ min. climb of 400' per NM to 3600, or 1600-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 360' per NM to 3100, or 1600-3 for climb in visual conditions. **Rwy 21R**, std. w/ min climb of 375' per NM to 3100, or 1600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course. **Rwys 21L, 21R**, climb to 2800, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course.

NOTE: **Rwy 3L**, multiple trees beginning 5000' from departure end of runway, 530' left of centerline, up to 104' AGL/2513' MSL. Tree 1854' from departure end of runway, 773' right of centerline, 54' AGL/2030' MSL, tree 2365' from departure end of runway, 798' right of centerline, 61' AGL/2037' MSL. **Rwy 3R**, multiple trees beginning 5016' from departure end of runway, 1033' left of centerline, up to 104' AGL/2529' MSL, pole 2.5 NM from departure end of runway, 2059' left of centerline, 62' AGL/2454' MSL, hangar 92' from departure end of runway, 341' right of centerline, 5' AGL/1967' MSL, NDB 925' from departure end of runway, 270' right of centerline, 25' AGL/1987' MSL, multiple trees beginning 1870' from departure end of runway, 271' right of centerline, up to 128' AGL/3560' MSL. **Rwy 21L**, pole 316' from departure end of runway, 302' left of centerline, 33' AGL/1992' MSL, tree 926' from departure end of runway, 362' left of centerline, 50' AGL/2006' MSL, building 1057' from departure end of runway, 158' left of centerline, 19' AGL/1975' MSL, building 1061' from departure end of runway, 110' left of centerline, 19' AGL/1975' MSL. Elevator 4080' from departure end of runway, 598' left of centerline, 134' AGL/2080' MSL. **Rwy 21R**, hangar 204' from departure end of runway, 496' left of centerline, 13' AGL/1969' MSL, pole 659' from departure end of runway, 404' left of centerline, 26' AGL/1979' MSL, building, 946' from departure end of runway, 230' left of centerline, 24' AGL/1973' MSL, pole 1399' from departure end of runway, 2' left of centerline, 33' AGL/1982' MSL, elevator 2655' from departure end of runway, 1097' left of centerline, 134' AGL/2080' MSL, tree 189' from departure end of runway, 511' right of centerline, 46' AGL/1979' MSL, tree 480' from departure end of runway, 404' right of centerline, 43' AGL/1979' MSL, pole 1252' from departure end of runway, 55' right of centerline, 29' AGL/1975' MSL, pole 1427' from departure end of runway, 13' right of centerline, 33' AGL/1982' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSO R-163. **Rwy 30**, do not exceed 210 knots until established on MSO R-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSO R-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100.

Rwy 7, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26**, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ... for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900. **Rwys 25, 30**, CAT A, B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C, D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-200 7400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARG Y LOM. Aircraft departing TARG Y LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARG Y LOM turn left and continue climbing direct TARG Y LOM to cross TARG Y LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEEZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JEEZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL. **Rwy 26**, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25:** Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25:** Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL**

RWYS: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7:** Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28,** NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4,** NA. **Rwy 9,** 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27,** 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4,** NA. **Rwys 9, 22, 27,** Use ZILLA DEPARTURE PROCEDURE.

(JATTS1.JATTS) 09239 SL-9198 (FAA)
JATTS ONE DEPARTURE (RNAV) (OBSTACLE)

ARCO-BUTTE COUNTY (AOC)
ARCO, IDAHO

BOISE RADIO
122.6
SALT LAKE CENTER
128.35 239.25
CTAF 122.8

5900

235°

NATIONAL SECURITY
AREA

CRATERS OF THE MOON
WILDERNESS AREA

JOBRO

089°
(19)

JATTS
10100

V269 Northwest bound

TAKE-OFF MINIMUMS

Rwy 6: NA- Obstacles.

Rwy 24: Standard.

TAKE-OFF OBSTACLE NOTE

Rwy 24, numerous vehicles beginning 641' from DER, 629' right of centerline, 17' AGL/5355' MSL.

NOTE: GPS required.

NOTE: RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24: Climb heading 235° to 5900 then climbing left turn direct JOBRO, then via 089° track to JATTS before proceeding on course.

NW-1, 14 JAN 2010 to 11 FEB 2010

APP CRS
323°

Rwy Idg	
TDZE	
Apt Elev	

N/A
N/A
5332

RNAV (GPS)-A

ARCO-BUTTE COUNTY (AOC)



GPS or RNP- 0.3 required.

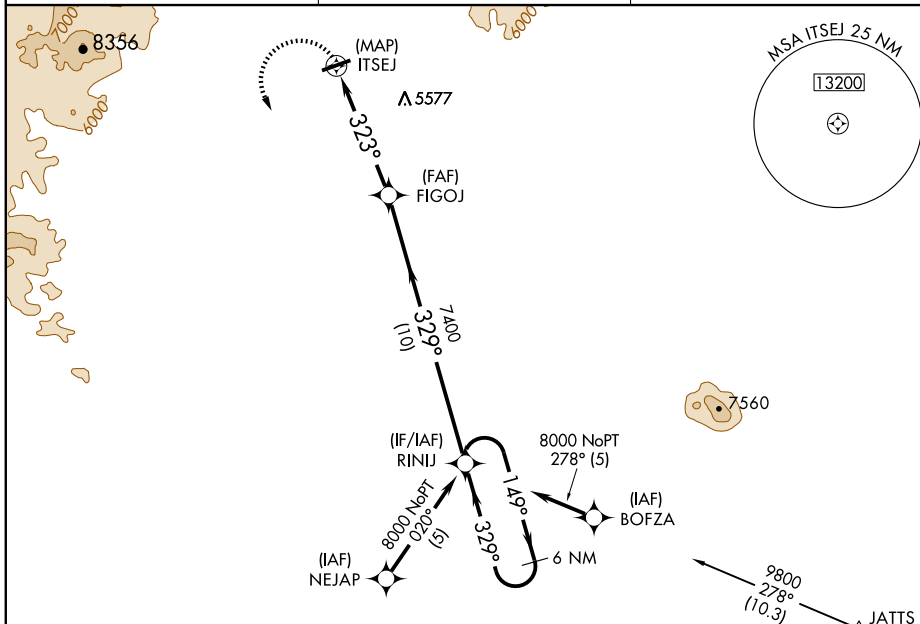
DME/DME RNP- 0.3 NA.

If local altimeter setting not received, use Pocatello Rgnl altimeter setting and increase all MDAs 600 feet.

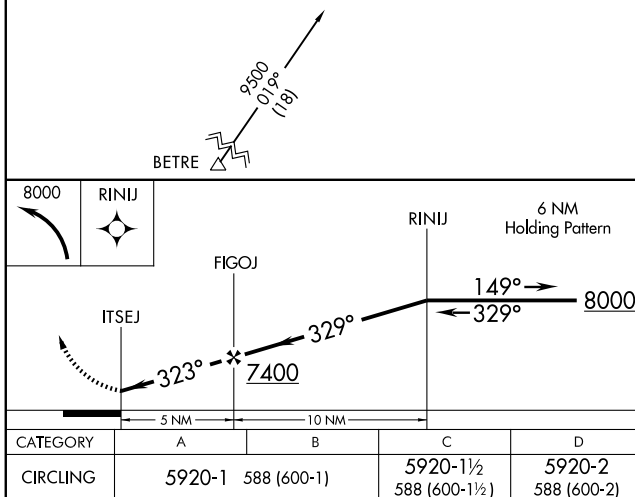
MISSED APPROACH: Climbing left turn to 8000 direct RINJ and hold.

AWOS-3
135.425

SALT LAKE CENTER
128.35 239.25

UNICOM
122.8 (CTAF) **L**

ELEV 5332



MIRL Rwy 6-24 **L**
REIL Rwy 6 and 24 **L**

NW-1. 14 JAN 2010 to 11 FEB 2010

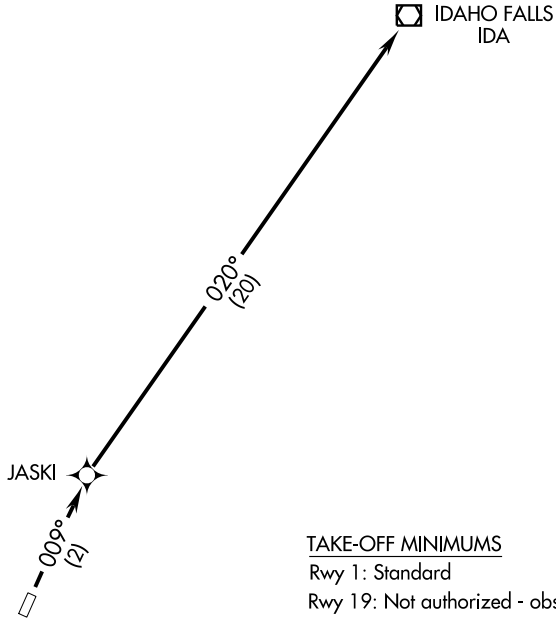
(IDA1.IDA) 09239

SL-9351 (FAA)

BLACKFOOT/MCCARLEY FIELD (T02)
BLACKFOOT, IDAHO

IDAHO FALLS ONE DEPARTURE (RNAV)

SALT LAKE CITY CENTER
128.35 239.25
UNICOM 122.8 (CTAF)



TAKE-OFF MINIMUMS

Rwy 1: Standard

Rwy 19: Not authorized - obstacles.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climb to 7000 (or higher assigned altitude) via 009° course to JASKI WP and right turn via 020° course to IDA VOR/DME, then via (assigned route).

TAKE-OFF RUNWAY 19: Not authorized.

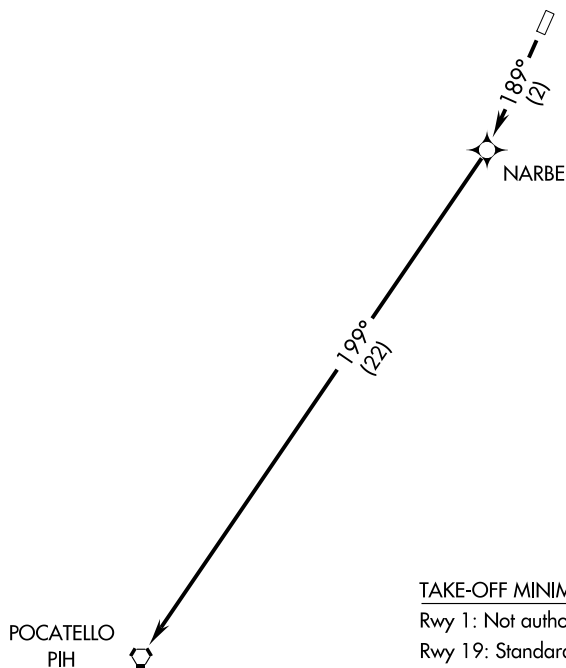
(PIH1 .PIH) 09239

SL-9351 (FAA)

BLACKFOOT/MCCARLEY FIELD (U02)
BLACKFOOT, IDAHO

POCATELLO ONE DEPARTURE (RNAV)

SALT LAKE CITY CENTER
128.35 239.25
UNICOM 122.8 (CTAF)



TAKE-OFF MINIMUMS

Rwy 1: Not authorized - obstacles

Rwy 19: Standard

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Not authorized.

TAKE-OFF RUNWAY 19: Climb to 7000 (or higher assigned altitude) via 189° course to NARBE WP and right turn via 199° course to PIH VORTAC, then via (assigned route).

▼

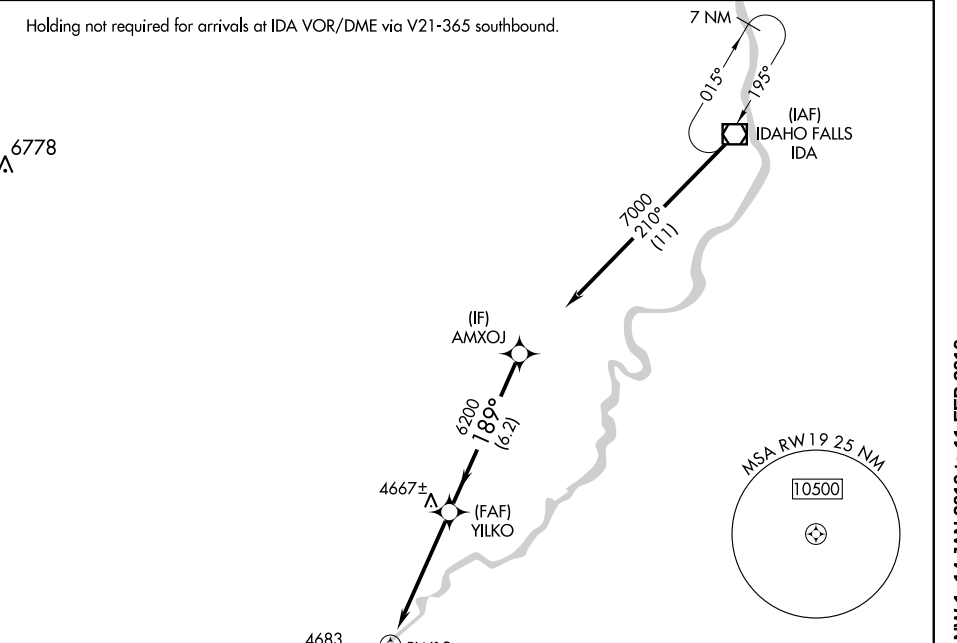
▲ NA

Use Pocatello Rgnl altimeter setting, when not received use Idaho Falls Rgnl altimeter setting.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 8500 direct NARBE and via 199° track to PIH VORTAC and hold.

SALT LAKE CITY CENTER
128.35 239.25

UNICOM
122.8 (CTAF)



MISSED APCH FIX

ELEV 4488

8500	NARBE	199° track	PIH	AMXOJ
				7000
Procedure Turn NA				
CATEGORY	A	B	C	D
CIRCLING	5340-1 852 (900-1)	5340-1¼ 852 (900-1¼)	5340-2½ 852 (900-2½)	5380-3 892 (900-3)

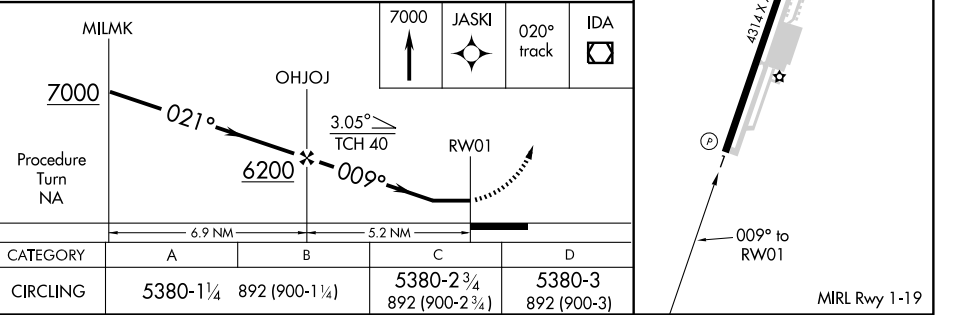
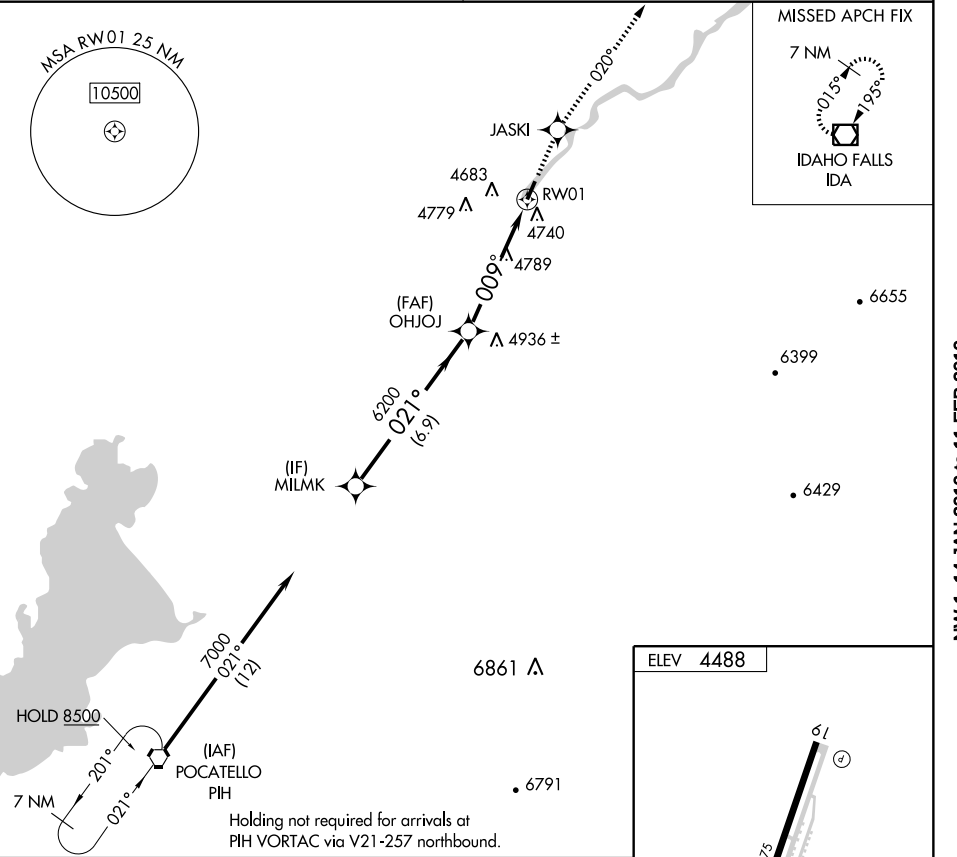
MIRL Rwy 1-19

Use Pocatello Rgnl altimeter setting, when not received use Idaho Falls Rgnl altimeter setting.
 DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 7000 direct JASKI and via 020° track to IDA VOR/DME and hold.

SALT LAKE CITY CENTER
128.35 239.25

UNICOM
122.8 (CTAF)



NW-1. 14 JAN 2010 to 11 FEB 2010

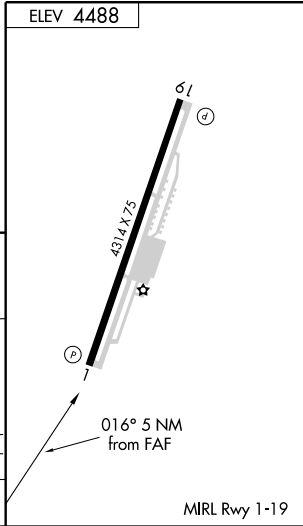
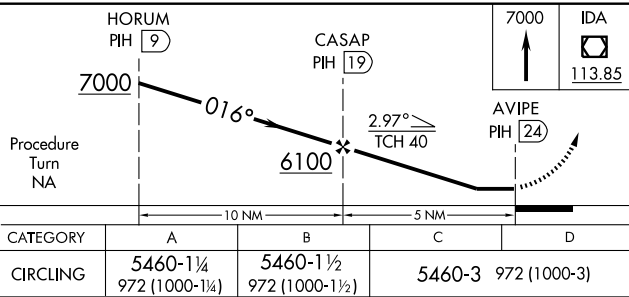
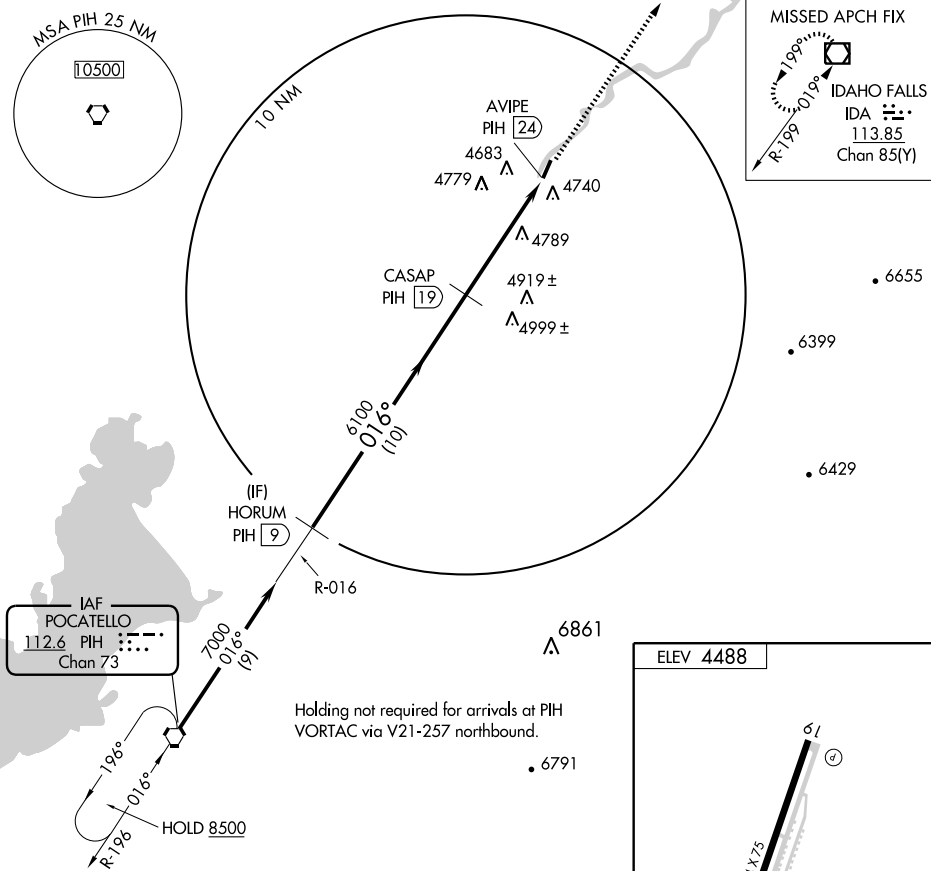
VORTAC PIH 112.6 Chan 73	APP CRS 016°	Rwy Idg TDZE Apt Elev	N/A N/A 4488
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Use Pocatello Rgnl altimeter setting, when not received use Idaho Falls Rgnl altimeter setting.

MISSED APPROACH: Climb to 7000 direct IDA VOR/DME and hold.

SALT LAKE CITY CENTER
128.35 239.25

UNICOM
122.8 (CTAF)

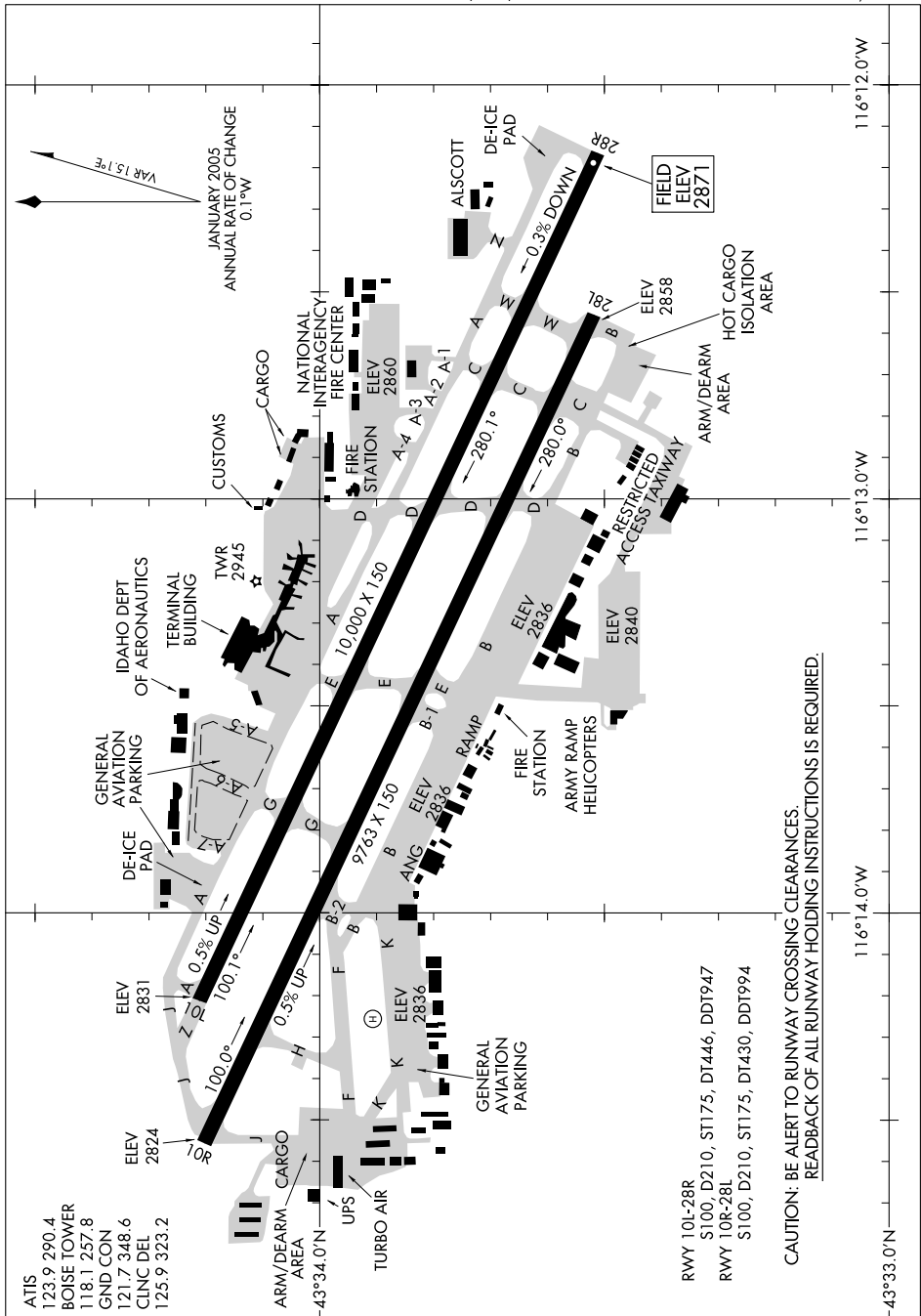


AIRPORT DIAGRAM

AL-57 (FAA)

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

BOISE, IDAHO



NW-1. 14 JAN 2010 to 11 FEB 2010

LOC I-BOI 111.1	APCH CRS 098°	Rwy Idg TDZE Arpt Elev 9763 2833 2871
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JAL-57 [USAF]

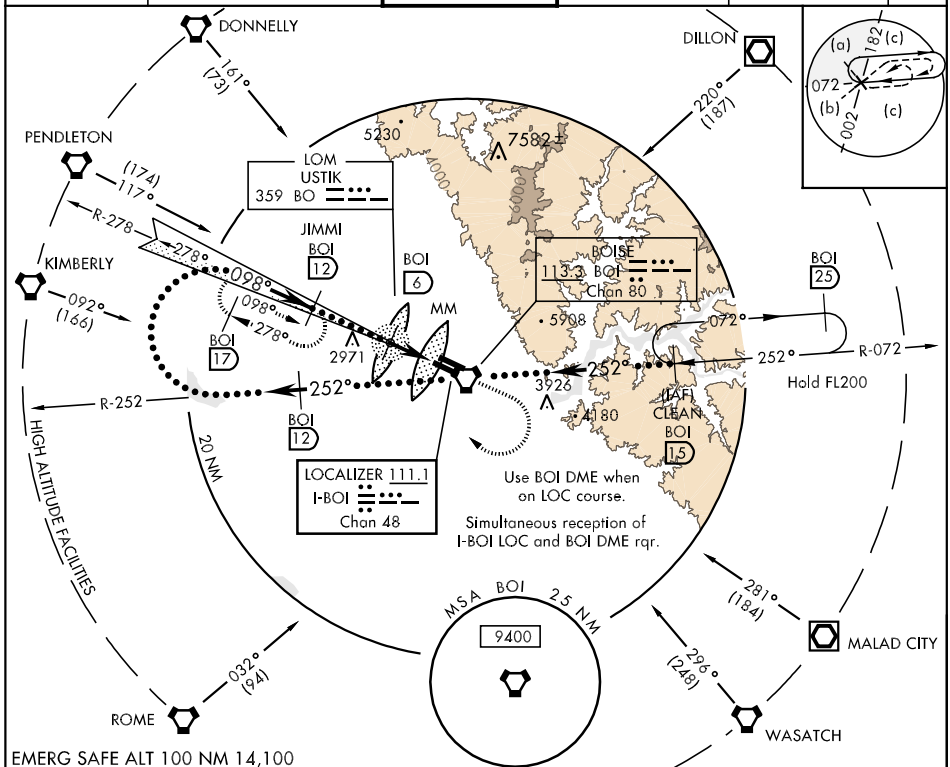
BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

▼ * When ALS inop, increase RVR to 40.
 ** When ALS inop, increase RVR to 50.
 *** Circling N of Rwy 10L-28R NA.

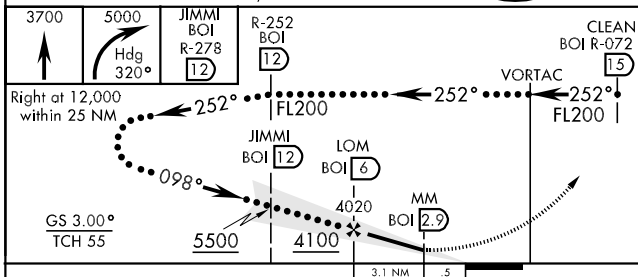


MISSED APPROACH: Climb to 3700 then climbing right turn to 5000 via heading 320° to intercept BOI VORTAC R-278 then direct JIMMI INT and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2	ASOS
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EMERG SAFE ALT 100 NM 14,100



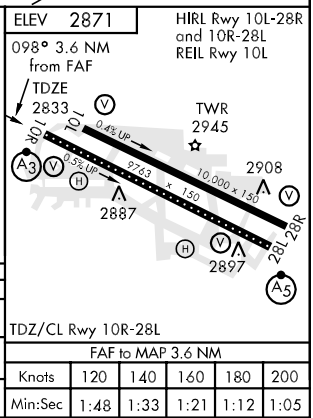
CATEGORY	C	D	E
S-ILS 10R *	3033/18	200 (200-½)	3033/24 200 (200-½)
S-LOC 10R **	3120/24 287 (300-½)	3120/40 287 (300-¾)	
CIRCLING ***	3320-1½ 452 (500-1½)	3420-2 552 (600-2)	3680-3 812 (900-3)

BOISE, IDAHO

43°34'N-116°13'W

BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

Amdt 2A 09071



VORTAC BOI 113.3 Chan 80	APCH CRS 098°	Rwy Idg TDZE Arpt Elev 9763 2833 2871
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JAL-57 [USAF]

BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

▼ * When ALS inop, increase CAT C RVR to 50 and CAT E RVR to 60.

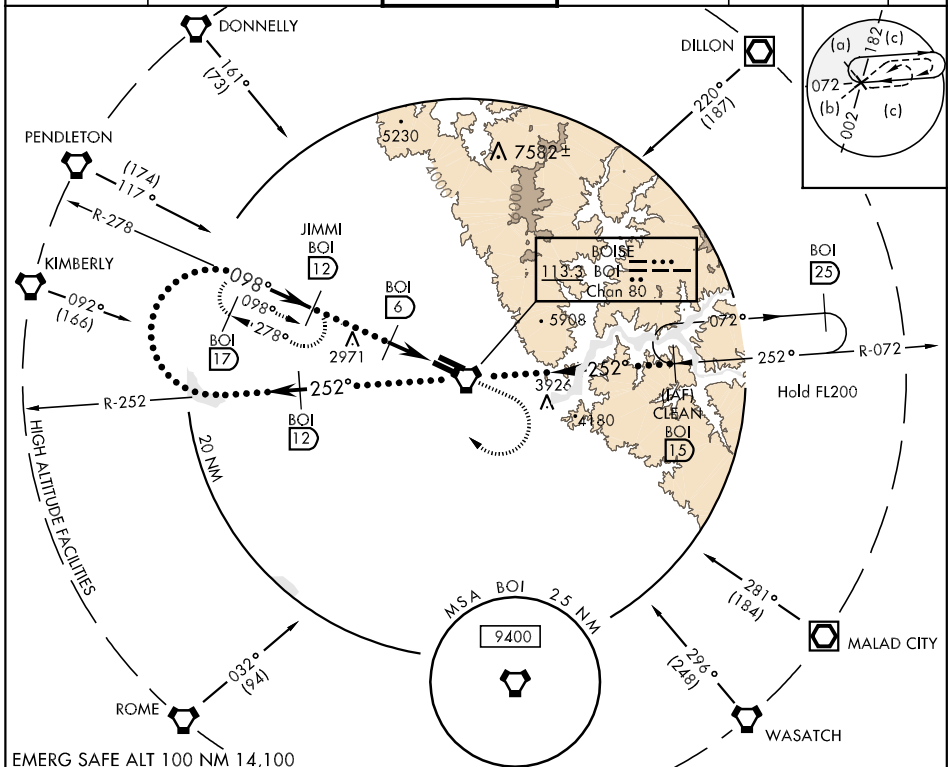
** Circling N of Rwy 10L-28R NA.

SSALR

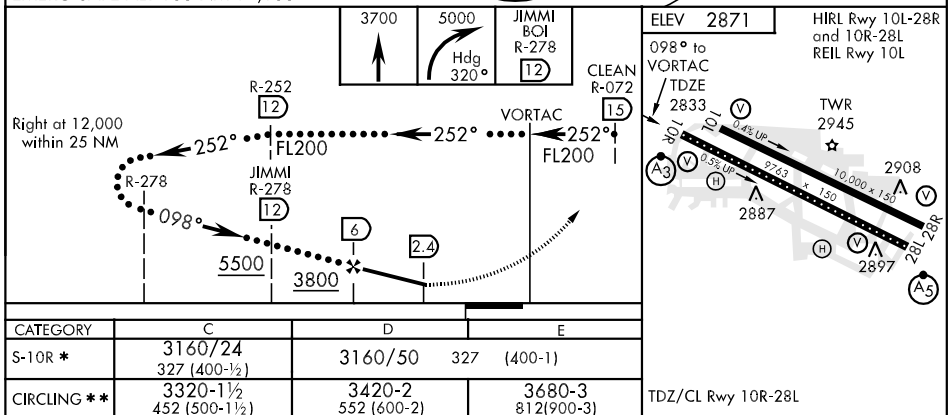


MISSED APPROACH: Climb to 3700 then climbing right turn to 5000 via heading 320° to intercept BOI VORTAC R-278 then direct JIMMI INT and hold

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2	ASOS
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EMERG SAFE ALT 100 NM 14,100



VORTAC BOI 113.3 Chạy 80	APCH CRS 278°	Rwy Idg 9763 TDZE 2855 Arpt Elev 2871
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JAL-57 [USAF]

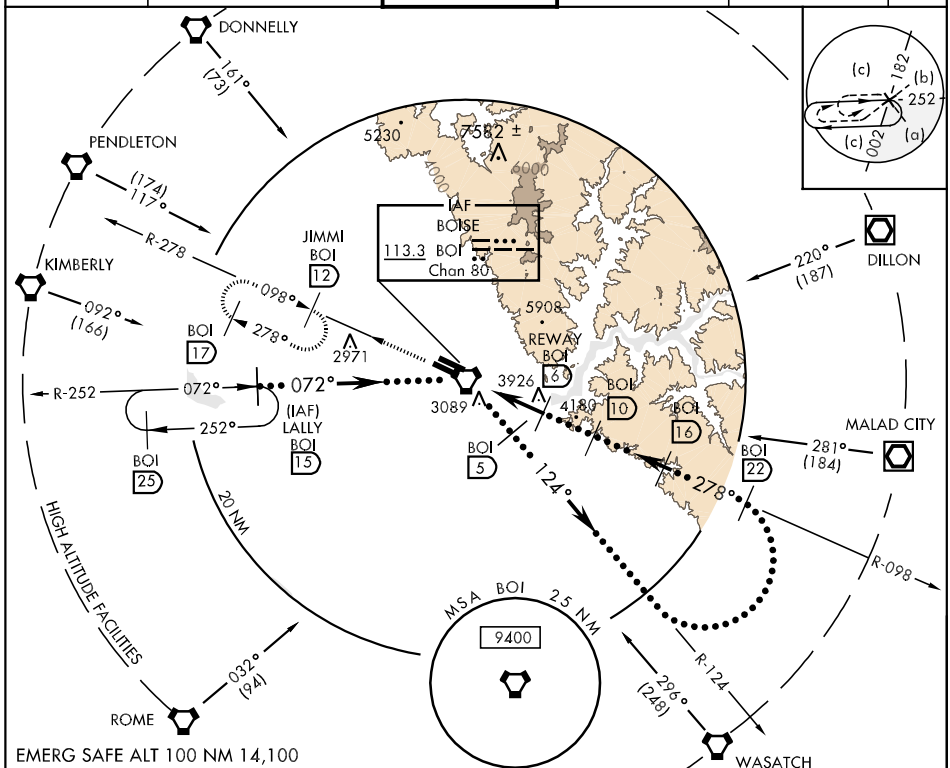
BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

T * When ALS inop, increase vis ½ mile.
** Circling N of Rwy 10L-28R NA.

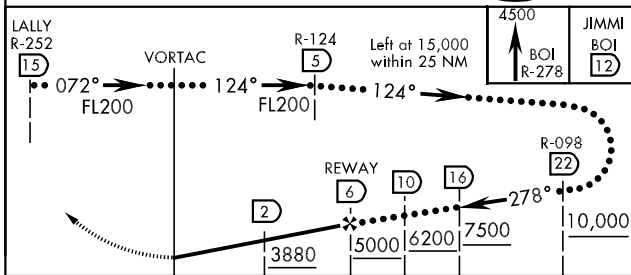


MISSED APPROACH: Climb to 4500 via BOI VORTAC R-278 to JIMMI and hold.

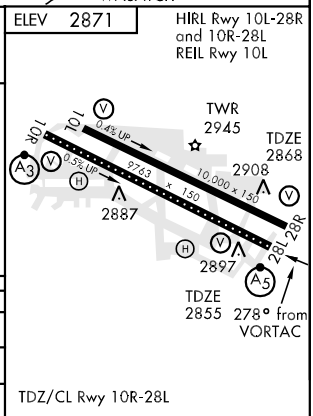
ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2	ASOS
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EMERG SAFE ALT 100 NM 14,100



CATEGORY	C	D	E
S-28L *	3360/50 505 (500-1)		3360/60 505 (500-1½)
SIDESTEP RWY 28R	3360-1¾ 492 (500-1¾)	3360-2 ¼ 492 (500-2¼)	
CIRCLING **	3360-1½ 492 (500-1½)	3420-2 552 (600-2)	3680-3 812 (900-3)



BOISE, IDAHO

43°34'N-116°13'W

BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

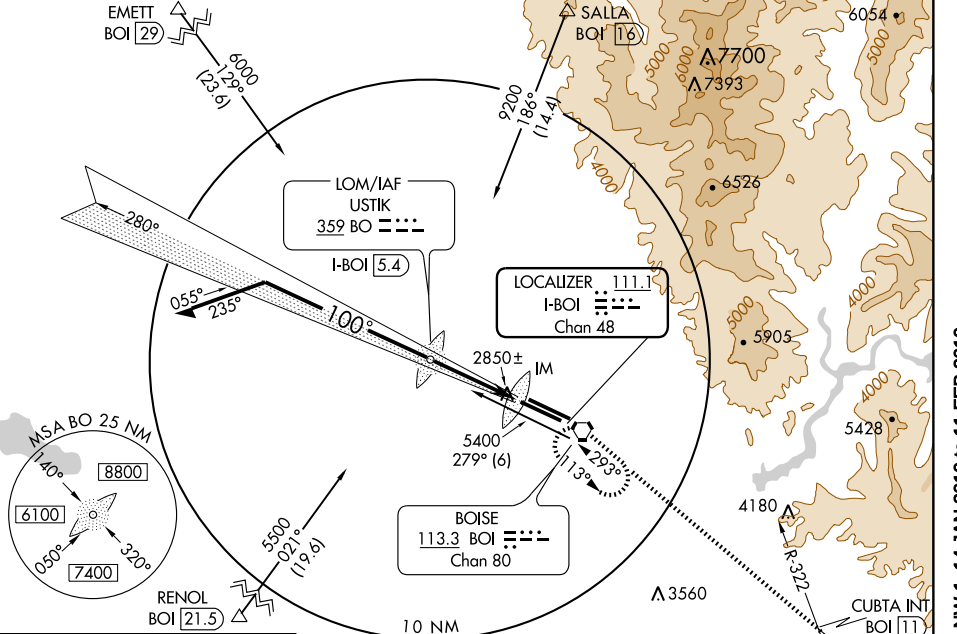
NW-1, 14 JAN 2010 to 11 FEB 2010

For inoperative MALS, increase S-LOC 10R Cat. D visibility to RVR 5000.
Circling NA north of Rwy 10L-28R.
Visibility reduction by helicopters NA for sidestep.

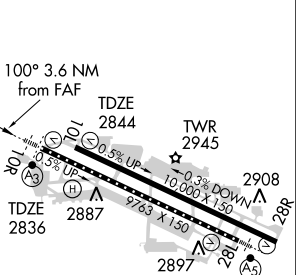
SSALR

MISSED APPROACH: Climb to 6000 via BOI VORTAC R-113 to CUBTA INT/BOI 11 DME, and continue climbing right turn to 6000 direct BOI VORTAC and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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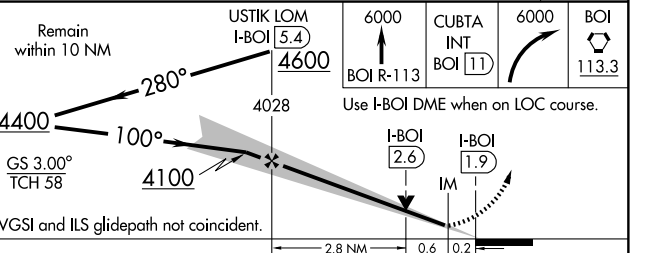
ELEV 2871



REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

ADF or DME REQUIRED



CATEGORY	A	B	C	D
S-ILS 10R	3036/18 200 (200-½)			
S-LOC 10R	3120/24 284 (300-½)			3120/40 284 (300-¾)
SIDESTEP RWY 10L	3120-1 276 (300-1)	3120-1½ 276 (300-1½)		3120-2 276 (300-2)
CIRCLING	3300-1 429 (500-1)	3340-1 469 (500-1)	3340-1½ 469 (500-1½)	3440-2 569 (600-2)

NW-1. 14 JAN 2010 to 11 FEB 2010

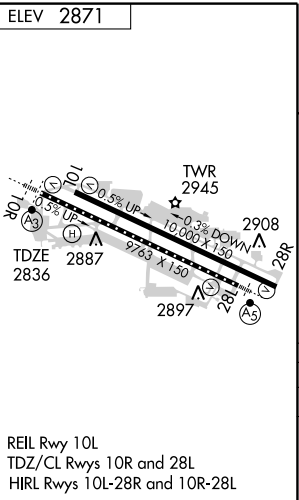
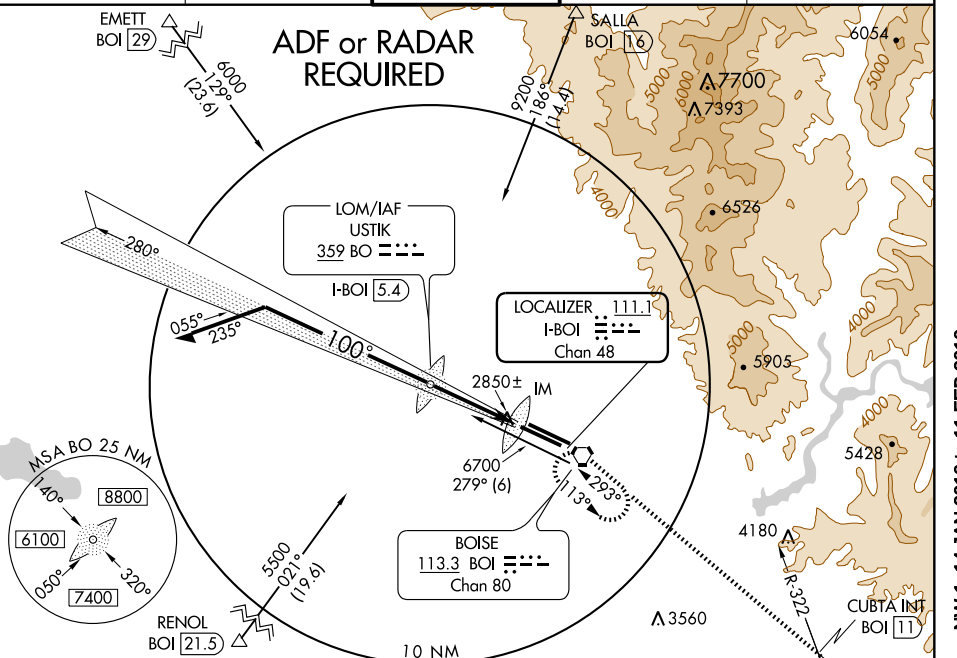
⚠

Circling NA north of Rwy 10L-28R.
Procedure does not meet ICAO standard for ALSF/TDZ/CL lighting systems. Authorization to conduct this approach requires specific OPSSPEC approval or LOA for this runway.

SSALR

MISSED APPROACH: Climb to 6000 via BOI VORTAC R-113 to CUBTA INT/BOI 11 DME, and continue climbing right turn to 6000 direct BOI VORTAC and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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Remain within 10 NM

USTIK LOM I-BOI 5.4 4600

6000 BOI R-113

CUBTA INT BOI 11

6000 BOI 113.3

4400

280°

100°

4100

GS 3.00° TCH 58

Use I-BOI DME when on LOC course. VGSI and ILS glidepath not coincident.

3.4 NM

1027'

979'

DH RA 102

2836 MSL

CATEGORY	A	B	C	D
S-ILS 10R	RA 102/12 100 DA 2936			

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

NW-1. 14 JAN 2010 to 11 FEB 2010

LOC/DME I-BOI 111.1 Chan 48	APP CRS 280°	Rwy Idg 9763 TDZE 2858 Apt Elev 2871
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LOC BC RWY 28L
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

T For inoperative MALSR, increase S-28L Cat. E visibility to 1½.
A Circling NA north of Rwy 10L-28R.
DME or RADAR required.



MISSED APPROACH: Climb to 4500 via BOI
VORTAC R-278 to JIMMI/12 DME/RADAR
and hold.

ATIS
123.9 290.4

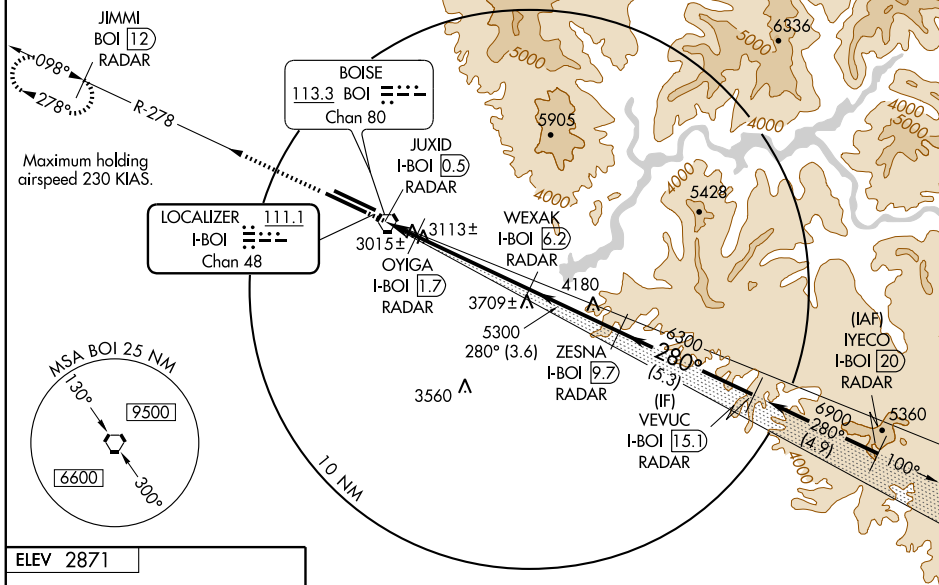
BOISE APP CON
119.6 269.4

BOISE TOWER
118.1 257.8

GND CON
121.7 348.6

CLNC DEL
125.9 323.2

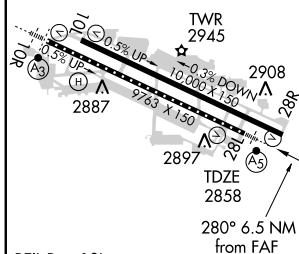
RADAR REQUIRED



NW-1: 14 JAN 2010 to 11 FEB 2010

ELEV 2871

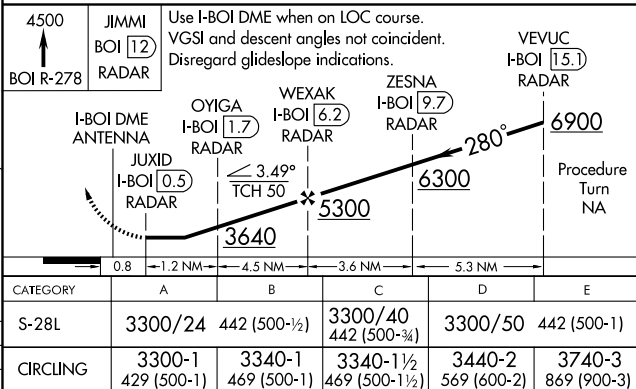
BACK COURSE



REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

FAF to MAP 5.7 NM

Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54



▼

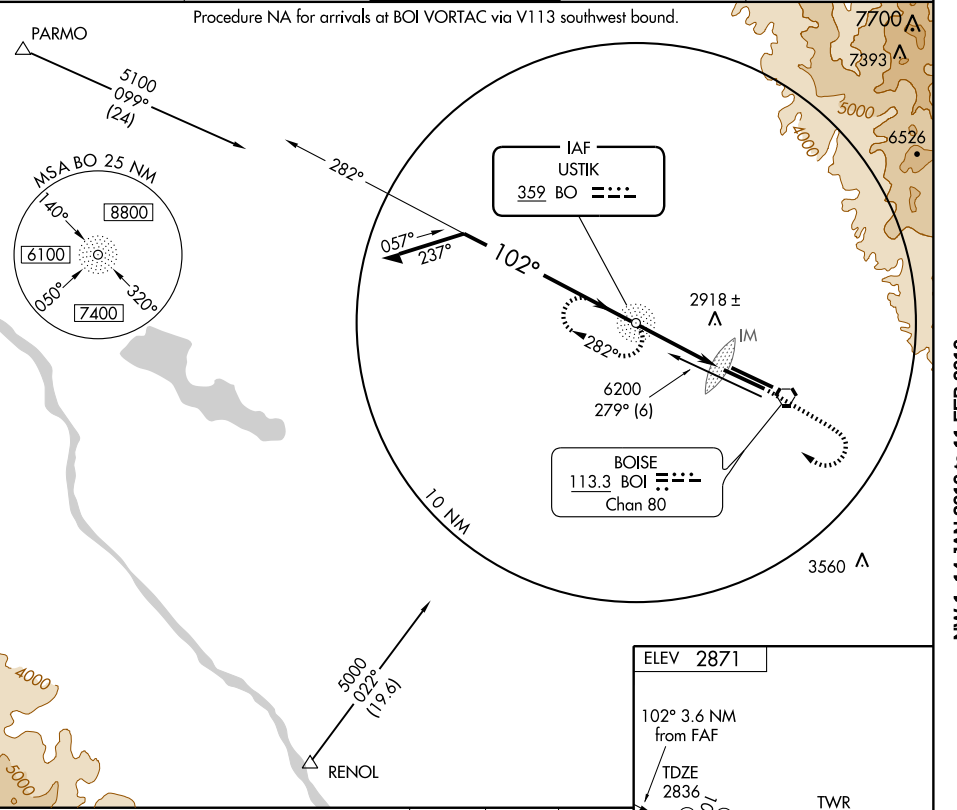
For inoperative MALS, increase S-10R Cat C visibility to RVR 5000.
Circling NA north of Rwy 10L-28R.

SSALR

MISSED APPROACH:

Climb to 3900 then climbing right turn to 4600 direct BO NDB and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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Remain within 10 NM

NDB 4600

3900

4600

BO 359

VGSI and descent angles not coincident.

4400

102°

282°

4100

3.24° TCH 55

3.6 NM

ELEV 2871

102° 3.6 NM from FAF

TDZE 2836

TWR 2945

2908

2887

2897

281

10.00% X 1.50

0.5% UP

0.3% DOWN

9763 X 1.50

10R

28R

REIL Rwy 10L

TDZ/CL Rwy 10R and 28L

HIRL Rwy 10L-28R and 10R-28L

FAF to MAP 3.6 NM

Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

CATEGORY	A	B	C	D
S-10R	3220/40 384 (400-¾)			3220/50 384 (400-1)
CIRCLING	3300-1 429 (500-1)	3340-1 469 (500-1)	3340-1½ 469 (500-1½)	3440-2 569 (600-2)

NW-1. 14 JAN 2010 to 11 FEB 2010

WAAS CH 78102 W10A	APP CRS 100°	Rwy Idg 10000 TDZE 2844 Apt Elev 2871
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RNAV (GPS) Y RWY 10L

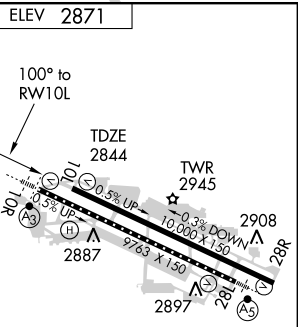
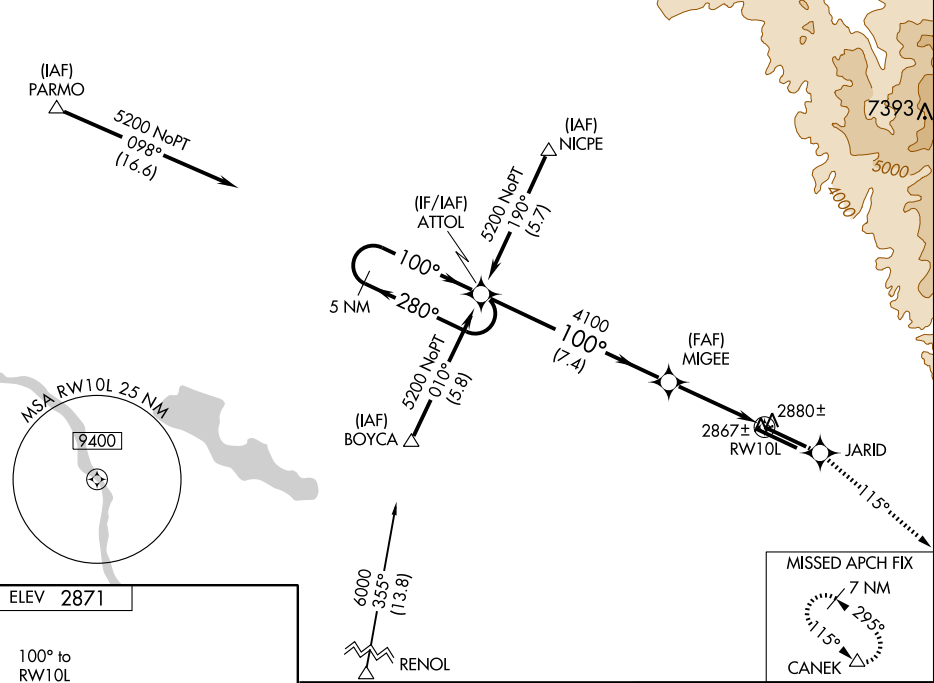
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 42°C (108°F).
Circling NA north of Rwy 10L and 28R. DME/DME RNP- 0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 7200 direct JARID and via track 115° to CANEK and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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Procedure NA for arrivals at RENOL via V113 southwest bound, and arrivals at PARMO via V500 northwest bound.



5 NM Holding Pattern		ATTOL	7200	JARID	trk 115°	CANEK
5200		280°	100°	100°	4100	
GS 3.00° TCH 53		7.4 NM	2.6 NM	1.2		
CATEGORY	A	B	C	D		
LPV DA	3094-1		250 (300-1)			
LNAV/VNAV DA	3173-1¼		329 (400-1¼)			
LNAV MDA	3280-1	436 (500-1)	3280-1¼ 436 (500-1¼)	3280-1½ 436 (500-1½)		
CIRCLING	3440-1	569 (600-1)	3440-1½ 569 (600-1½)	3440-2 569 (600-2)		

REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

WAAS CH 40203 W10B	APP CRS 100°	Rwy Idg TDZE 2836 Apt Elev 2871
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RNAV (GPS) Y RWY 10R

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

▼

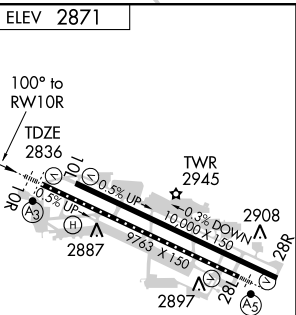
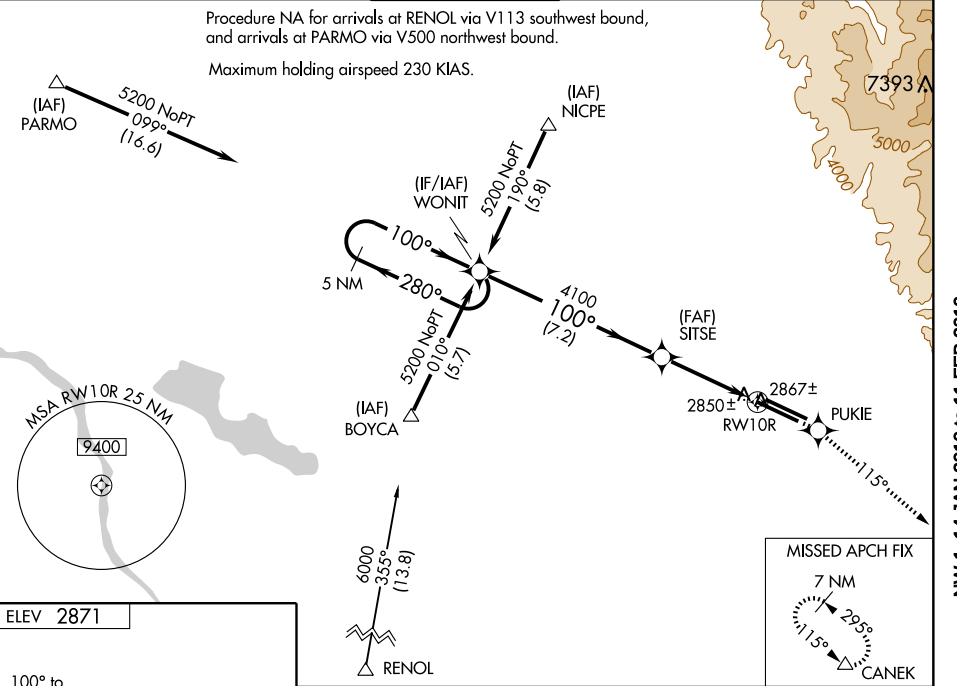
▲

For inoperative SSALR, increase LNAV Cat. D visibility to RVR 6000.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 42°C (107°F).
Circling NA north of Rwys 10L and 28R.
DME/DME RNP- 0.3 NA.

SSALR

MISSED APPROACH: Climb to 7200
direct PUKIE and via track 115° to
CANEK and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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VGSI and RNAV glidepath not coincident.				
5 NM Holding Pattern				
CATEGORY	A	B	C	D
LPV DA	3086/24 250 (300-½)			
LNAV/VNAV DA	3189/40 353 (400-¾)			
LNAV MDA	3240/24	404 (400-½)	3240/40 404 (400-¾)	3240/50 404 (400-1)
CIRCLING	3440-1	569 (600-1)	3440-1½ 569 (600-1½)	3440-2 569 (600-2)

7200

PUKIE

trk 115°

CANEK

*1.1 NM to RWY 10R

*LNAV only

REIL Rwy 10L
TDZ/CL Rwys 10R and 28L
HIRL Rwys 10L-28R and 10R-28L

NW-1. 14 JAN 2010 to 11 FEB 2010

WAAS CH 77702 W28A	APP CRS 280°	Rwy Idg TDZE Apt Elev	9763 2858 2871
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RNAV (GPS) Y RWY 28L
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

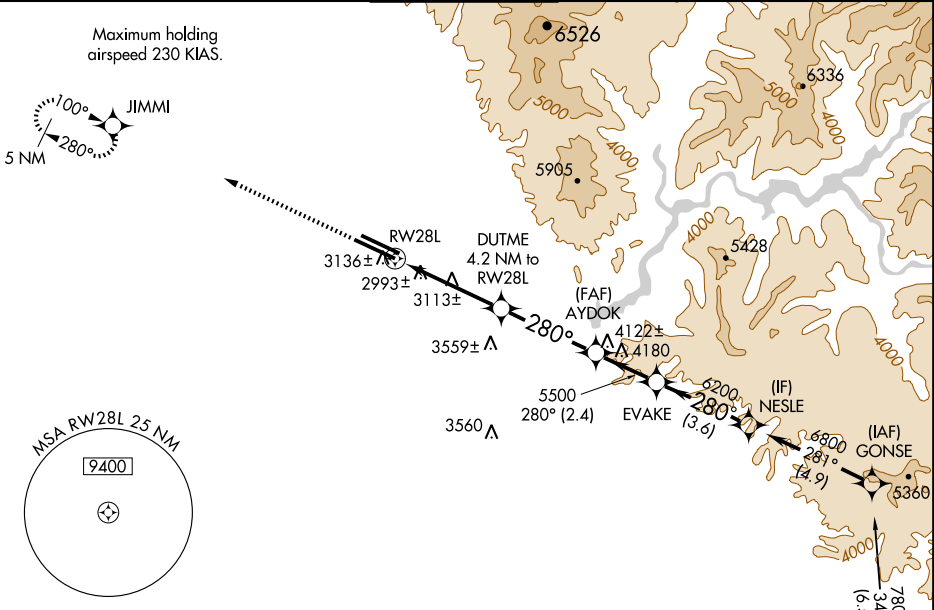
T Circling NA north of Rwy 10L-28R. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP-0.3 NA.
A For inoperative MALS, increase LPV visibility to RVR 5000 all Cats, LNAV/VNAV Cat E to 1½, and LNAV Cat E to 2¼.

MALS

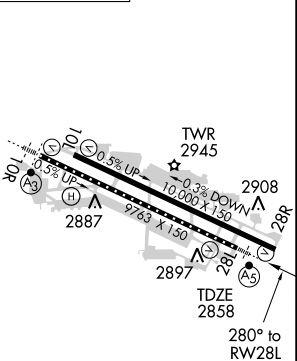


MISSED APPROACH: Climb to 6000 direct JIMMI and hold, continue climb-in-hold to 6000.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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ELEV 2871



Procedure NA for arrivals at CANEK via V4-253-330 southeast bound.

CANEK

	6000	JIMMI							
			DUTME 4.2 NM to RW28L	AYDOK	EVAKE	NESLE			
						6800			
						6200			
							Procedure Turn NA		
							GS 3.00° TCH 50		
			1.8 NM	2.4 NM	3.8 NM	2.4 NM	3.6 NM		
CATEGORY			A	B	C	D	E		
LPV DA								3183/24	325 (400-½)
LNAV/VNAV DA								3274/50	416 (500-1)
LNAV MDA			3480/24	622 (700-½)	3480/60 622 (700-1¼)	3480-1½ 622 (700-1½)	3480-1¾ 622 (700-1¾)		
CIRCLING			3480-1	609 (700-1)	3480-1¾ 609 (700-1¾)	3480-2 609 (700-2)	3860-3 989 (1000-3)		

REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

WAAS CH 65803 W28B	APP CRS 280°	Rwy Idg 10000 TDZE 2871 Apt Elev 2871
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RNAV (GPS) Y RWY 28R
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F).
DME/DME RNP-0.3 NA. Circling NA north of Rwy 10L-28R.

MISSED APPROACH: Climb to 6000 direct ATTOL and hold, continue climb-in-hold to 6000.

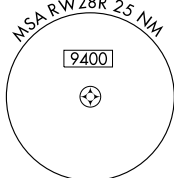
ATIS
123.9 290.4

BOISE APP CON
119.6 269.4

BOISE TOWER
118.1 257.8

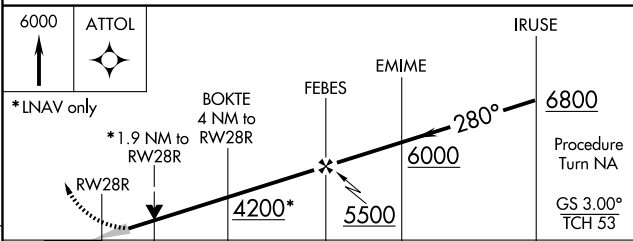
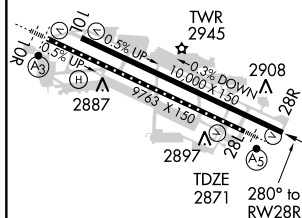
GND CON
121.7 348.6

CLNC DEL
125.9 323.2



ELEV 2871

Procedure NA for arrivals at CANEK via V4-253-330 southeast bound.



CATEGORY		A	B	C	D
LPV	DA	3147/50 276 (300-1)			
LNAV/ VNAV	DA	3271-1½ 400 (400-1½)			
LNAV	MDA	3520/50 649 (700-1)	3520-1¾ 649 (700-1¾)	3520-2 649 (700-2)	
CIRCLING		3520-1 649 (700-1)	3520-1¾ 649 (700-1¾)	3520-2 649 (700-2)	

REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

RNAV (RNP) Z RWY 10L
BOISE AIR TERMINAL (GOWEN FIELD) (BOT)

MISSED APPROACH: Climb to 7200 via track 100° to FEBES and via track 123° to CANEK and hold.

MSA RW10L 25 NM
9400

(IAF) EMMT
4800
138°
(18.6)

(IAF) PARMO
4800
09°
(18)

(IAF) CADKI
4800
065°
(22.6)

(IF) JIMMI
3800
09°
(6.9)

(IF) ZAMDA
Max 180 KIAS

(IF) HULKU
3800
09°
(6.9)

(IF) APUISE
5000
01°
(5)

(IF) BUVXE
Max 180 KIAS

(IF) EKEME
5500
281°
(3.5)

(IF) CUVEL
Max 180 KIAS

(FAF) FATIB
3800
100°
(2.9)

(IF) ALSIZ
Max 180 KIAS

(IF) HEPUB
5800
178°
(4.5)

(IAF) BANGS
(RNP 0.70)
(RF REQD)

(IF) KOLKE
6200
280°
(4.5)

(IF) APUPE
7100
280°
(3.5)

(IF) WATAD
7800
241°
(8.5)

(IF) VELUY
9800
241°
(10)

(IAF) EREXE
(RNP 0.70)
(RF REQD)

(IAF) CANEK
(RF REQD)

Procedure NA for arrivals at RENOL

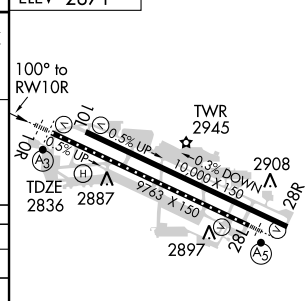
MISSED APCH FIX
7 NM
295°
115°
CANEK

NW-1. 14 JAN 2010 to 11 FEB 2010

RNAV (RNP) Z RWY 10R
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

MISSED APPROACH: Climb to 7200 via track 100° to AYDOK and via track 122° to CANEK and hold.

CLNC DEL
125.9 323.2



REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

APP CRS	Rwy Idg	9763
280°	TDZE	2858
	Apt Elev	2871

RNAV (RNP) Z RWY 28L

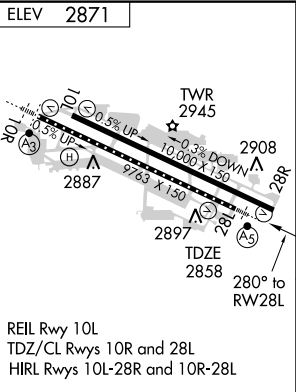
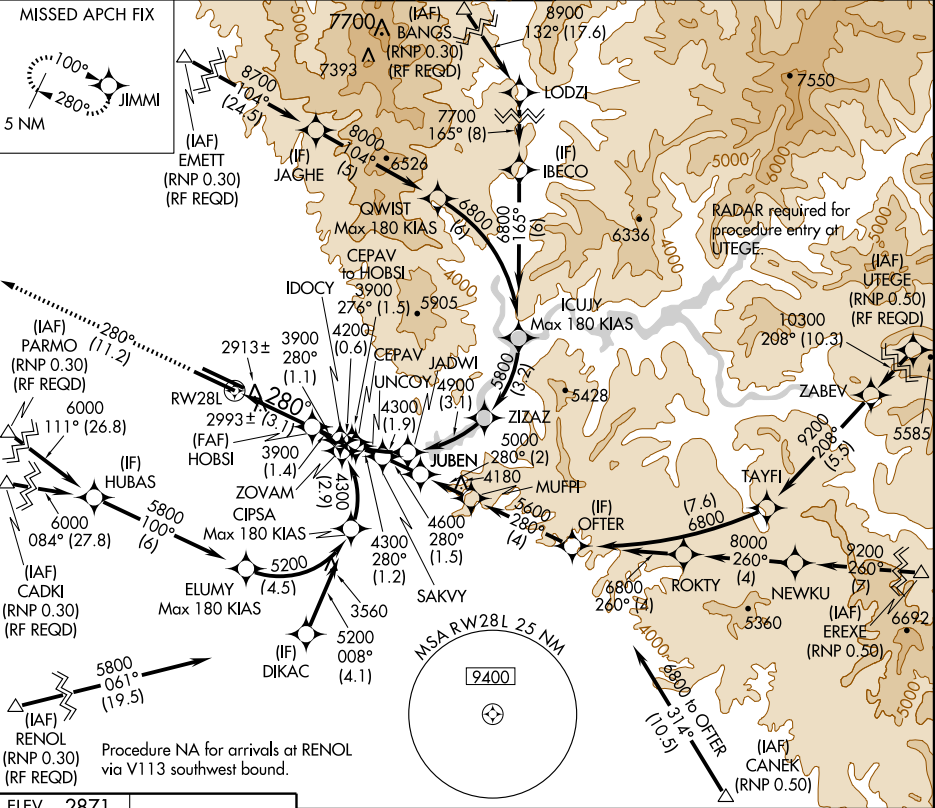
BOISE AIR TERMINAL (GOWEN FIELD) (B1)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -14°C (7°F) or above 42°C (107°F). For inoperative MALSR increase RNP 0.15 and RNP 0.25 visibility to RVR 6000, and RNP 0.30 to 1½.

MALSR

MISSED APPROACH: Climb to 6000 via track 280° to JIMMI and hold, continue climb-in-hold to 6000.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2



6000 ↑ trk 280°		JIMMI 	HOBSI 3900		Procedure Turn NA
RW28L 		280°		3900	GP 3.00° TCH 50
		3.1 NM			
CATEGORY	A	B	C	D	
RNP 0.15 DA		3228/40	370 (400-¾)		
RNP 0.25 DA		3250/50	392 (400-1)		
RNP 0.30 DA		3315/60	457 (500-1¼)		
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED					

APP CRS	Rwy Idg	10000
280°	TDZE	2871
	Apt Elev	2871

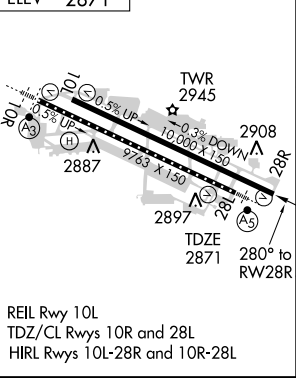
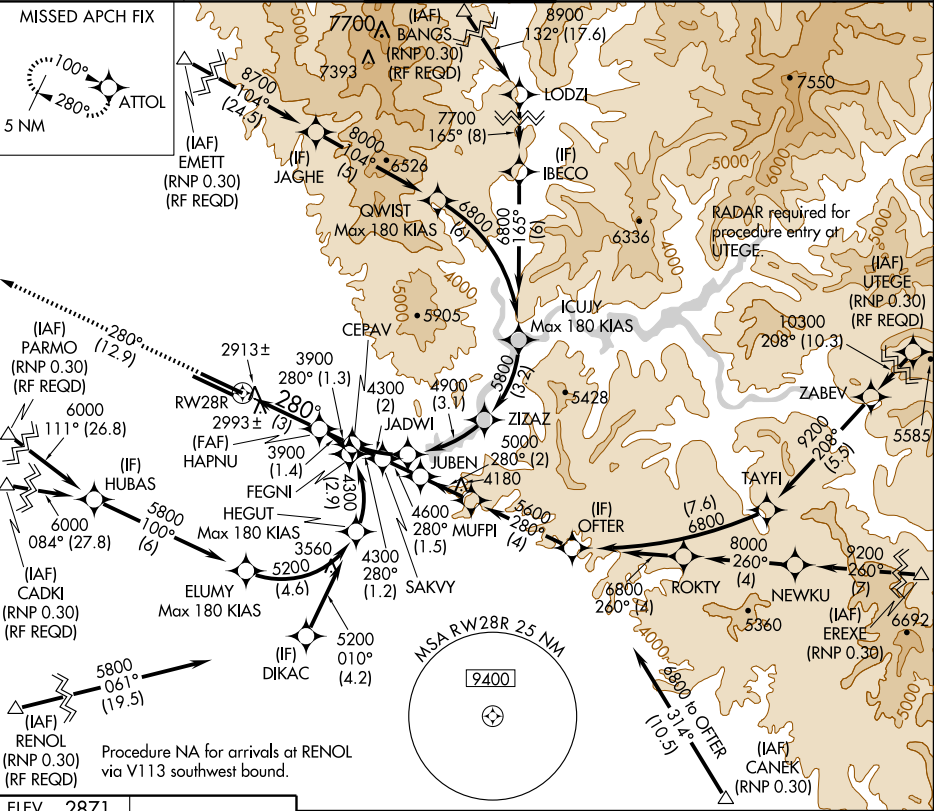
RNAV (RNP) Z RWY 28R

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -14°C (7°F) or above 42°C (107°F). Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 6000 via track 280° to ATTOL and hold, continue climb-in-hold to 6000.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2

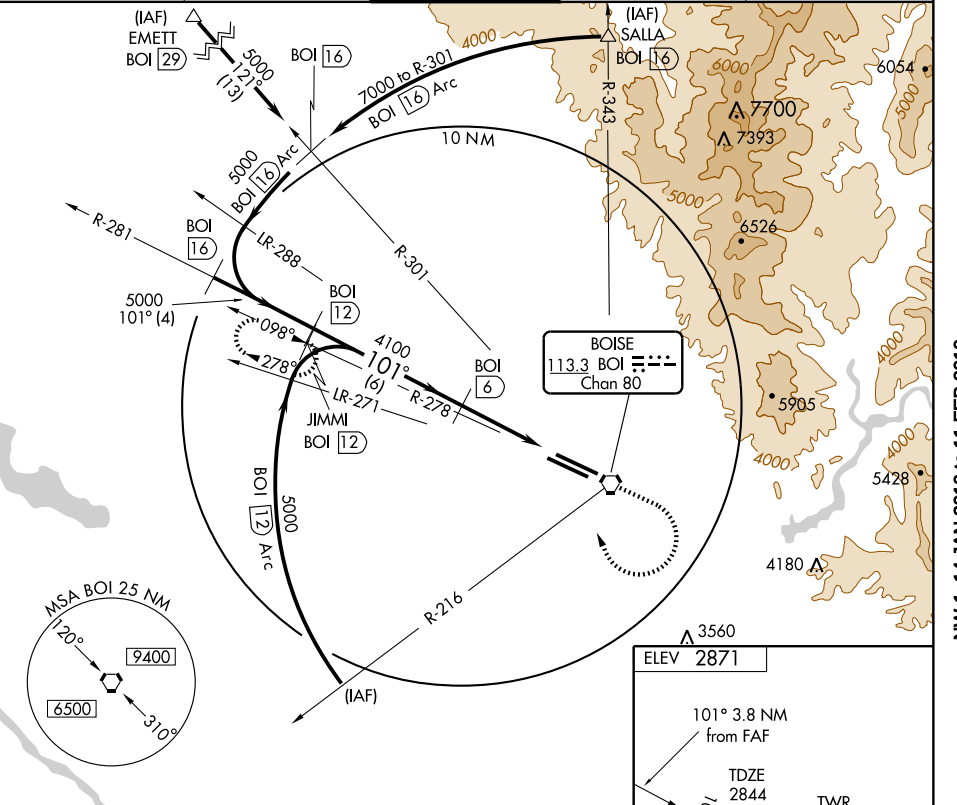


ELEV 2871	6000	ATTOL	HAPNU	Procedure Turn NA
trk 280°	3900	3900	GP 3.00°	TCH 52
3 NM				
CATEGORY	A	B	C	D
RNP 0.15 DA	3204/60	333 (400-1¼)		
RNP 0.30 DA	3304-1½	433 (500-1½)		
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED				

Boirding not authorized north of Rwy 10L-28R.

MISSED APPROACH: Climb to 3700 then climbing right turn to 5000 via heading 320° and BOI R-278 to JIMMI INT and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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Procedure Turn NA

5000

101°

4100

3.03° TCH 53

6 NM

3.8 NM

3700

5000

320°

BOI R-278 113.3

JIMMI BOI 12

CATEGORY	A	B	C	D	E
S-10L	3180-1 336 (400-1)				3180-1¼ 336 (400-1¼)
CIRCLING	3300-1 429 (500-1)	3340-1 469 (500-1)	3340-1½ 469 (500-1½)	3440-2 569 (600-2)	3740-3 869 (900-3)

REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

REIL Rwy 10L
TDZ/CL Rwys 10R and 28L
HIRL Rwys 10L-28R and 10R-28L

CATEGORY	A	B	C	D	E
S-28L	3380/24 522 (600-½)		3380/50 522 (600-1)	3380/60 522 (600-1¼)	
SIDESTEP RWY 28R	3380/60 509 (600-1¼)		3380-1¾ 509 (600-1¾)	3380-2¼ 509 (600-2¼)	
CIRCLING	3380-1 509 (600-1)		3380-1½ 509 (600-1½)	3440-2 569 (600-2)	3740-3 869 (900-3)

NW-1 14 JAN 2010 to 11 FEB 2010

V

Inoperative table does not apply to Cat D.
Circling not authorized north of Rwy 10L-28R.

SSALR

MISSED APPROACH: Climb to 3900 via BOI R-113 within 6 NM, then climbing right turn to 6000 direct BOI VORTAC and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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REIL Rwy 10L TDZ/CL Rwy 10R and 28L HIRL Rwy 10L-28R and 10R-28L	CATEGORY	A	B	C	D
	S-10R	3160/24	327 (400-½)		3160/50 327 (400-1)
	CIRCLING	3300-1 432 (500-1)	3320-1 452 (500-1)	3320-1½ 452 (500-1½)	3420-2 552 (600-2)

NW-1, 14 JAN 2010 to 11 FEB 2010

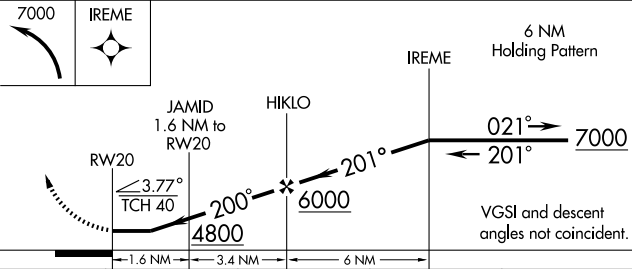
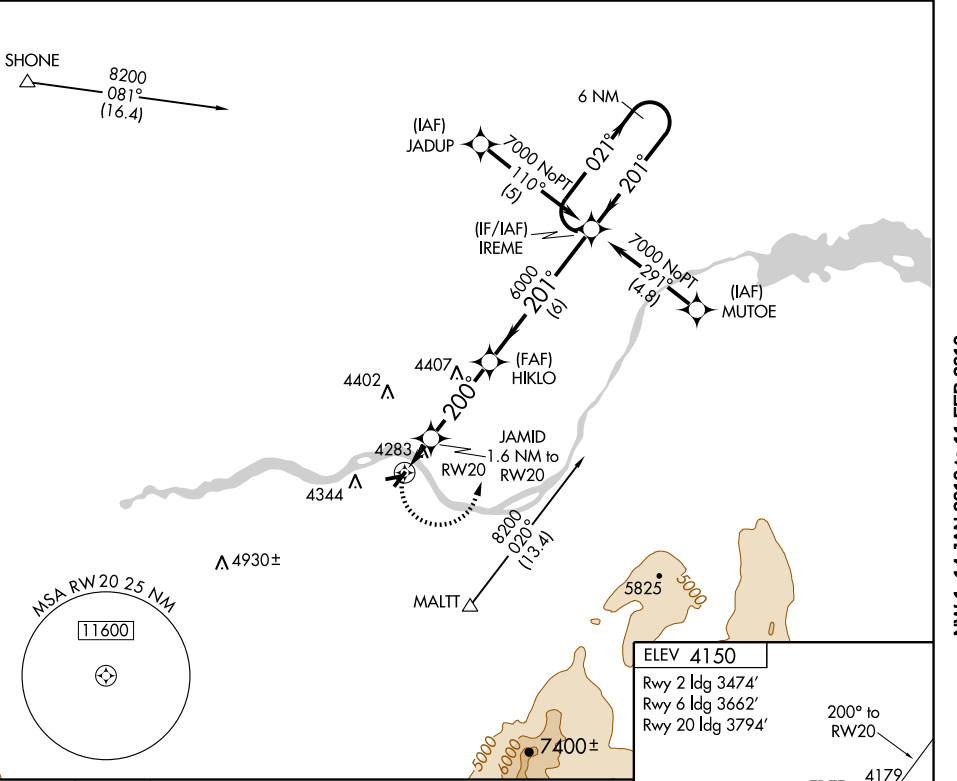
▼

▲NA

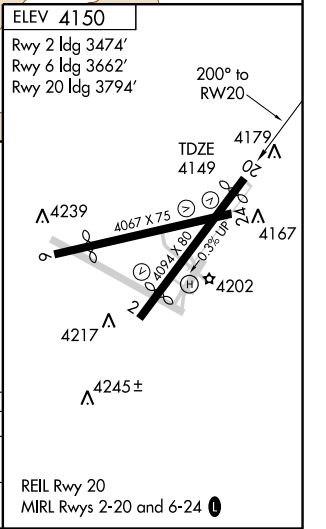
If local altimeter setting not received, use Joslin Field-Magic Valley Rgnl altimeter setting and increase all MDAs by 80 feet.
GPS or RNP -0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 7000 direct IREME WP and hold.

ASOS 135.575	TWIN FALLS APP CON★ 126.7 353.75	CTAF 122.9 0
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CATEGORY	A	B	C	D
RNAV MDA	4560-1 411 (500-1)	4560-1½ 411 (500-1½)	4560-1½ 411 (500-1½)	NA
CIRCLING	4660-1 510 (600-1)	4660-1½ 510 (600-1½)	4660-1½ 510 (600-1½)	NA



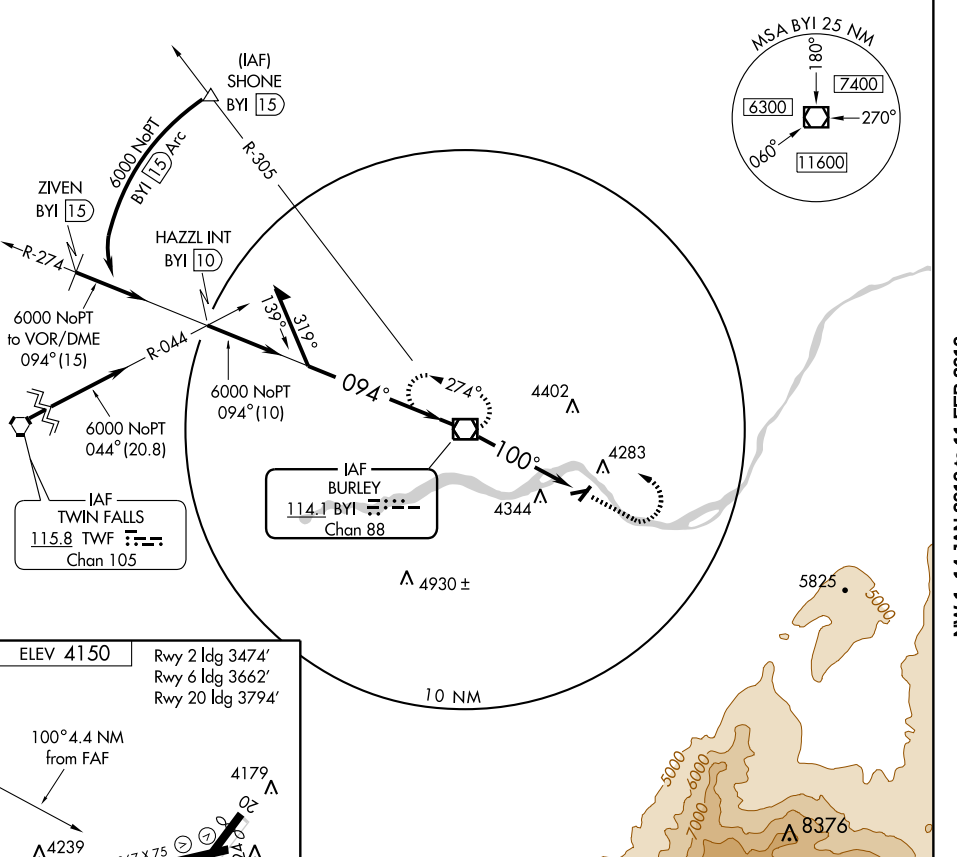
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▲

If local altimeter setting not received, use Joslin Field-Magic Valley Rgnl altimeter setting and increase all MDAs 80 feet.

MISSED APPROACH: Climb to 5000 then climbing left turn to 6000 direct BYI VOR/DME and hold.

ASOS 135.575	TWIN FALLS APP CON ★ 126.7 353.75	CTAF 122.9 
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ELEV 4150

Rwy 2 ldg 3474'
Rwy 6 ldg 3662'
Rwy 20 ldg 3794'

100° 4.4 NM from FAF

REIL Rwy 20
MIRL Rwy 2-20 and 6-24 

Remain within 10 NM

VOR/DME

5000

6000

BYI  114.1

6000

274°

094°

6000

100°

BYI 4.4

4.4 NM

FAF to MAP 4.4 NM					
Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

CATEGORY	A	B	C	D
CIRCLING	4660-1 510 (600-1)		4660-1½ 510 (600-1½)	4700-2 550 (600-2)

AL-68 (FAA)

VOR/DME BYI <u>114.1</u> Chan 88	APP CRS 280°	Rwy Idg N/A TDZE N/A Apt Elev 4150
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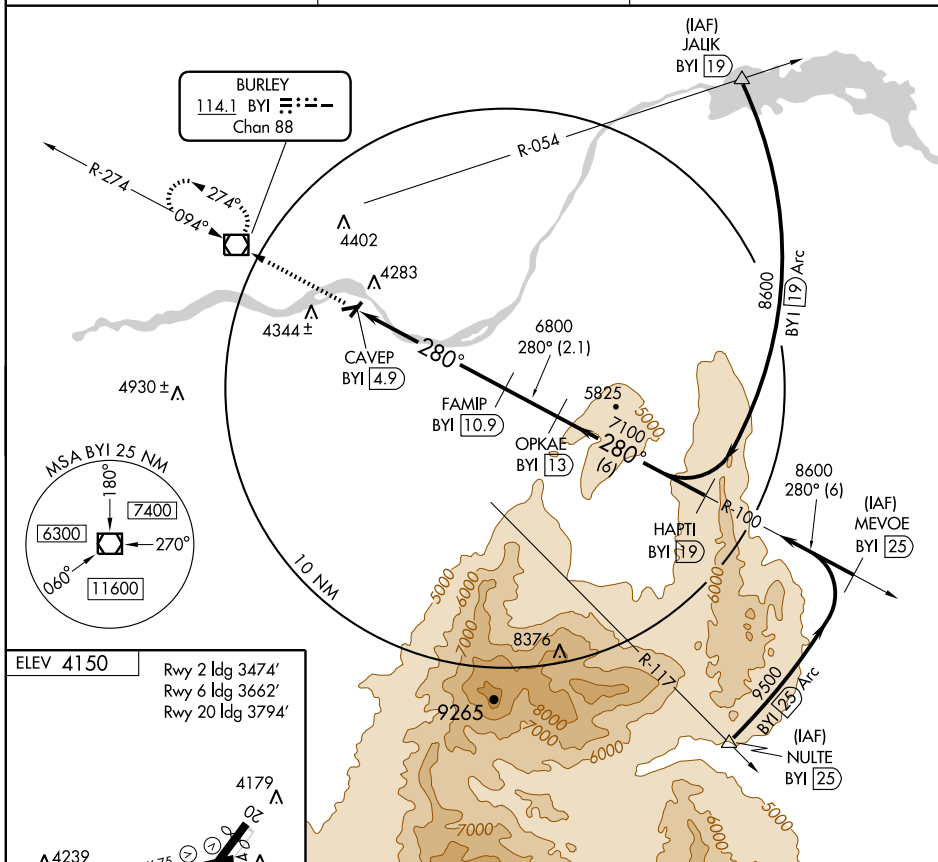
VOR/DME-B
BURLEY MUNI (BYI)

T If local altimeter setting not received, use Joslin Field-Magic
A Valley Rgnl altimeter setting and increase all MDAs 80 feet.

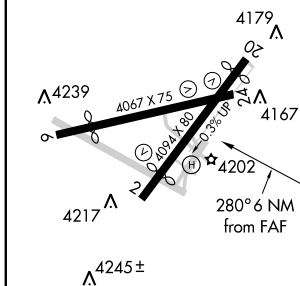
MISSED APPROACH: Climb to 6000 direct BYI VOR/DME and hold.

ASOS
135,575

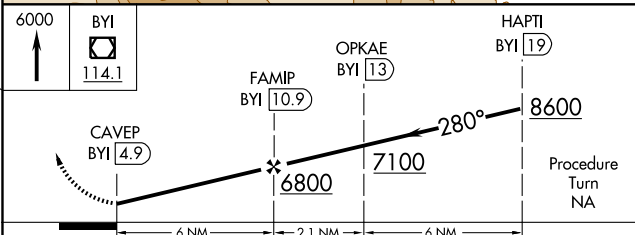
TWIN FALLS APP CON ★
126.7 353.75

CTAF
122.9 **L**

ELEV 4150	Rwy 2 ldg 3474'
	Rwy 6 ldg 3662'
	Rwy 20 ldg 3794'



REIL Rwy 20
MIRL Rwys 2-20 and 6-24 **L**



Knots	60	90	120	150	180
Min:Sec					

CATEGORY	A	B	C	D
CIRCLING	4660-1	510 (600-1)	4660-1½ 510 (600-1½)	4700-2 550 (600-2)

NW-1. 14 JAN 2010 to 11 FEB 2010

NDB MPA	APP CRS	Rwy Idg	5500
<u>238</u>	<u>281°</u>	TDZE	2432
		Apt Elev	2432

NDB RWY 30

CALDWELL INDUSTRIAL (EUL)

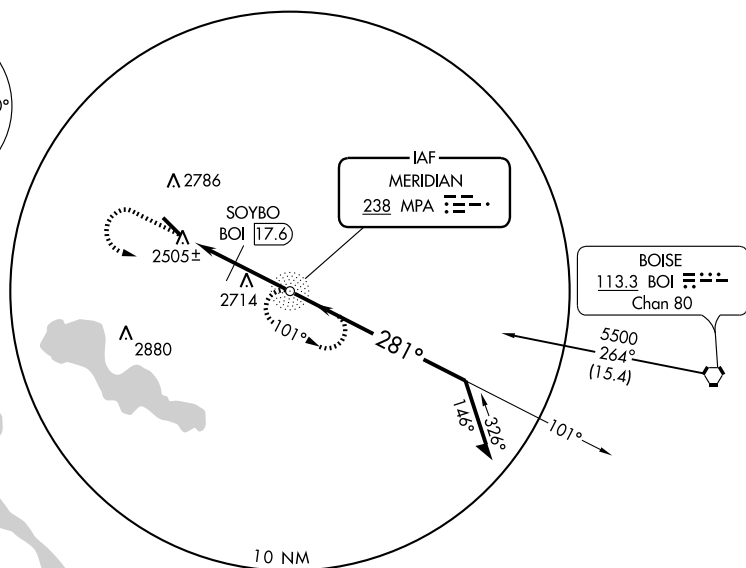
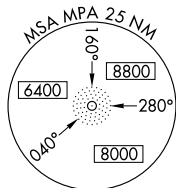
When local altimeter setting not received, use Boise altimeter setting and increase all MDA 120 feet and all visibilities ½ mile.

MISSED APPROACH: Climb to 3500 then climbing left turn to 5400 direct MPA NDB and hold, continue climb-in-hold to 5400.

AWOS-3
135.075

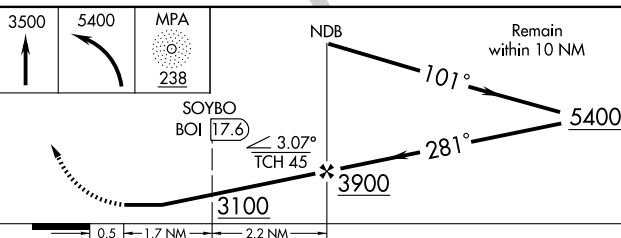
BOISE APP CON
119.6 269.4

UNICOM
122.7 (CTAF)

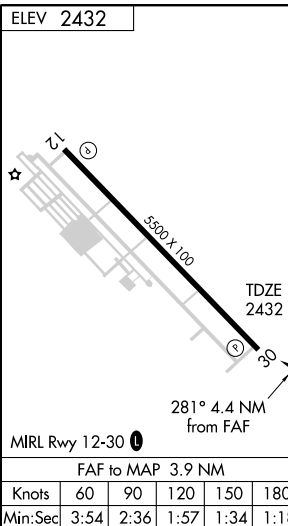


Λ 4316

• 4837



CATEGORY	A	B	C	D
S-30	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)
CIRCLING	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)
DME MINIMUMS				
S-30	2940-1	508 (600-1)	2940-1½	508 (600-1½)
CIRCLING	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)



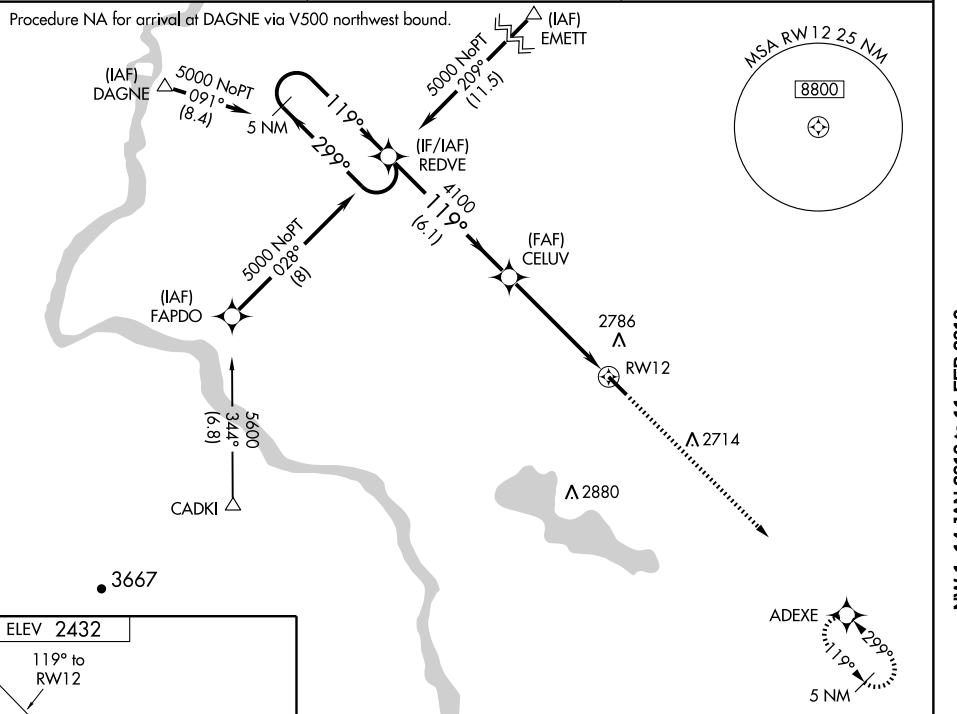
▼

▲

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
Baro-VNAV NA when using Boise altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
When local altimeter setting not received, use Boise altimeter setting and increase all DA/MDA 120 feet and all visibilities ½ mile.

MISSED APPROACH: Climb to 5000
direct ADEXE and hold.

AWOS-3 135.075	BOISE APP CON 119.6 269.4	UNICOM 122.7 (CTAF) 0
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ELEV 2432

119° to RW12

TDZE 2431

5500 x 100

30

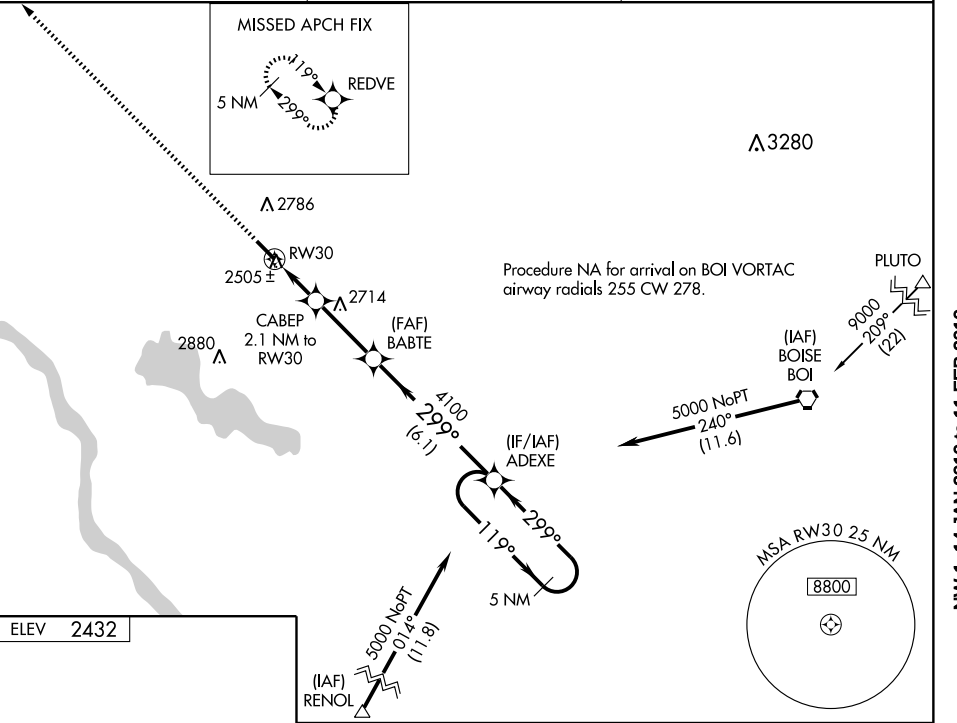
5 NM Holding Pattern	REDVE	CELUV	RW12	
5000	299° 119°	119° 4100	5000 ADEXE	
GS 3.00° TCH 42	6.1 NM	5.1 NM		
CATEGORY	A	B	C	D
LPV DA	2700-1 269 (300-1)			
LNAV/VNAV DA	2994-2 563 (600-2)			
LNAV MDA	2840-1 409 (500-1)		2840-1¼ 409 (500-1¼)	
CIRCLING	3100-1 668 (700-1)		3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)

MIRL Rwy 12-30 0

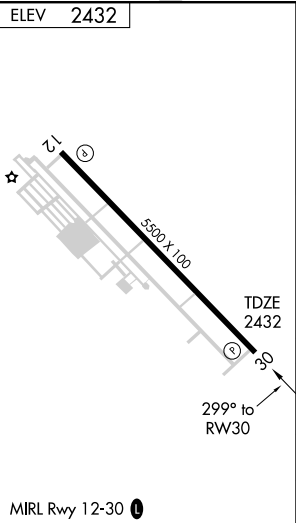
⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
⚠ Baro-VNAV NA when using Boise altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F). When local altimeter setting not received, use Boise altimeter setting and increase all DA/MDA 120 feet and all visibilities ½ mile.

MISSED APPROACH: Climb to 5000 direct REDVE and hold.

AWOS-3 135.075	BOISE APP CON 119.6 269.4	UNICOM 122.7 (CTAF) 0
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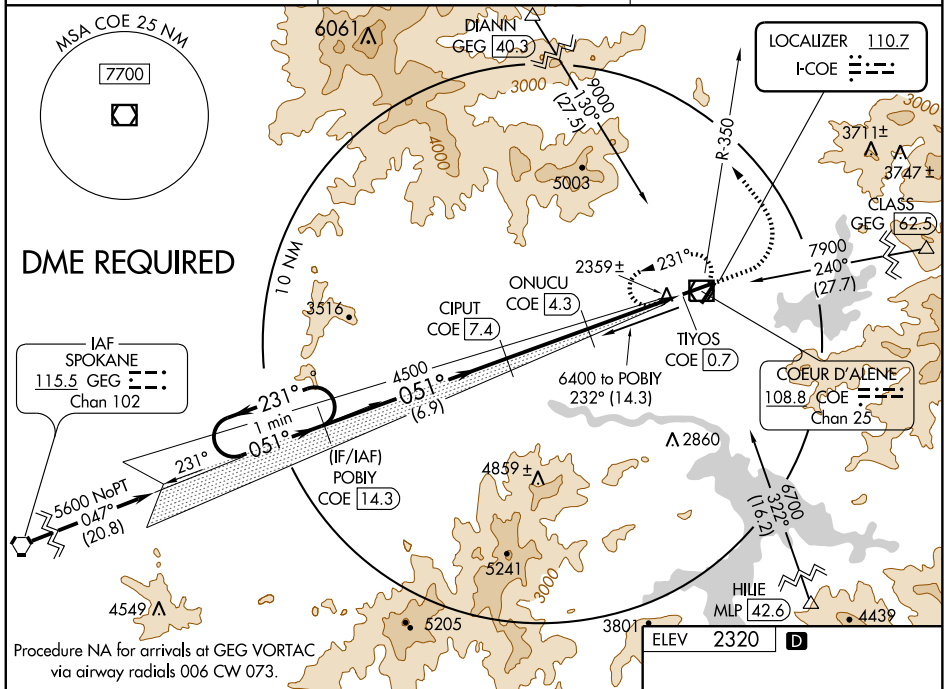
ELEV 2432



5000 ↑	REDVE ✦	ADEXE 5 NM Holding Pattern			
*LNAV only	CABEP 2.1 NM to RW30	BABTE	119° → 5000 ← 299°		
	RW30	3140*	299°	4100	GS 3.00° TCH 45
2.1 NM		2.9 NM	6.1 NM		
CATEGORY	A	B	C	D	
LPV DA	2687-1		255 (300-1)		
LNAV/VNAV DA	2822-1¼		390 (400-1¼)		
LNAV MDA	2880-1	448 (500-1)	2880-1½ 448 (500-1½)	2880-1½ 448 (500-1½)	
CIRCLING	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)	

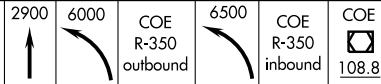
MISSED APPROACH: Climb to 2900 then climbing left turn to 6000 via COE R-350 outbound then climbing left turn to 6500 via COE R-350 inbound to COE VOR/DME and hold.

UNICOM
122.8 (CTAF) **L**



NW-1 14 JAN 2010 to 11 FEB 2010

One Minute Holding Pattern



POBIY
COE
143

CIPUT
COE 7.4

ONUCU
COE 4.3

TIYOS

5600 $\xleftarrow{231^\circ}$
 $\xrightarrow{051^\circ}$

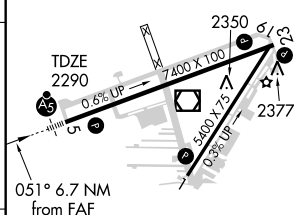
CC-0.000

CC-0.000

3480

*LOC only

051° 6.7 NM
from FAF



CATEGORY	A	B	C	D
S-ILS 5	2490-½ 200 (200-½)			
S-LOC 5	2860-½ 570 (600-½)	2860-1 570 (600-1)	2860-1¼ 570 (600-1¼)	
CIRCLING	2860-1 540 (600-1)	2880-1½ 560 (600-1½)	2880-2 560 (600-2)	

MIRL Rwy 1-19 **L**
HIRL Rwy 5-23 **L**
REIL Rwys 1 and 23 **L**

NDB LEN	APP CRS	Rwy Idg	7400
347	052°	TDZE	2290
		Apt Elev	2320

NDB RWY 5

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

▼ When local altimeter setting not received, use Spokane Intl altimeter setting and increase all MDA 80 feet and S-5 and circling Cat C visibility ¼ mile.

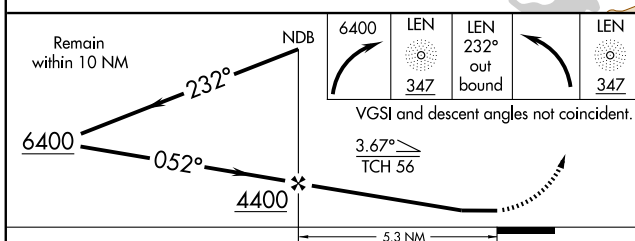
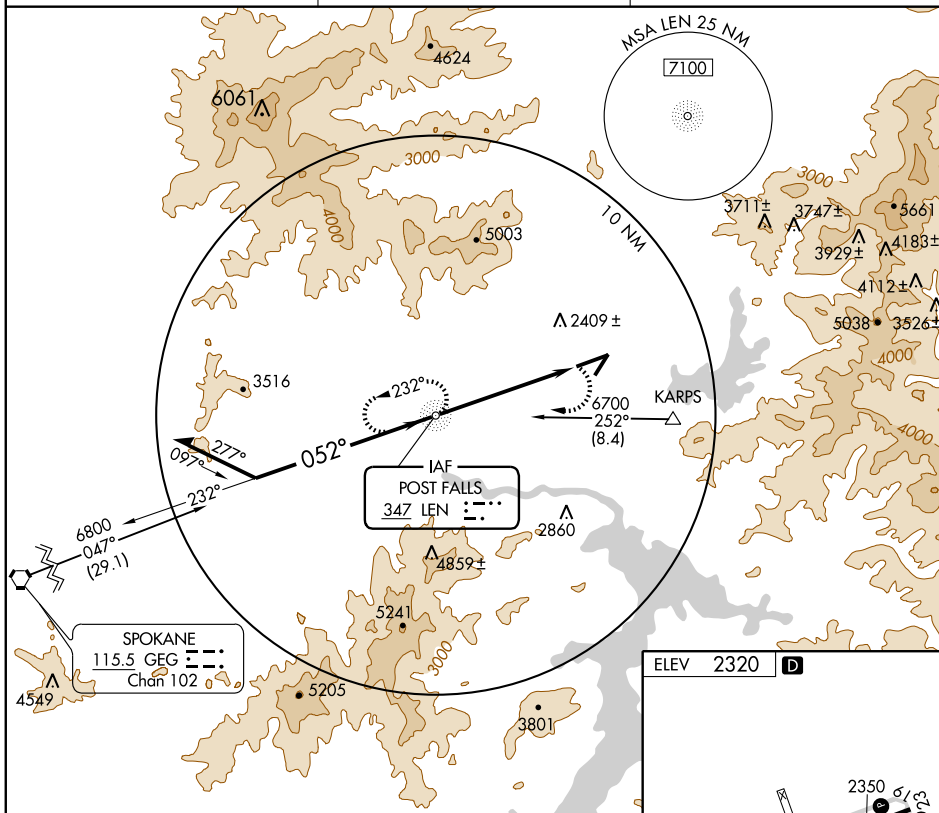


MISSED APPROACH: Climbing right turn to 6400 direct LEN NDB and via LEN NDB bearing 232° outbound then left turn direct LEN NDB and hold.

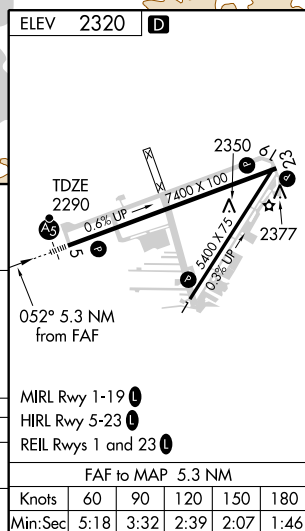
AWOS-3
135.075

SPOKANE APP CON
132.1 263.0

UNICOM
122.8 (CTAF) 0



CATEGORY	A	B	C	D
S-5	2780-¾ 490 (500-¾)	2900-¾ 610 (600-¾)	2920-1¼ 630 (600-1¼)	NA
CIRCLING	2920-1 600 (600-1)		2920-1½ 600 (600-1½)	NA



WAAS CH 70608 W05A	APP CRS 051°	Rwy Idg 7400 TDZE 2290 Apt Elev 2320
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RNAV (GPS) RWY 5

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

	For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Spokane Intl altimeter setting and increase all DA/MDA 80 feet and all visibilities ¼ mile. Baro-VNAV and VDP NA when using Spokane Intl altimeter setting. For inoperative MALSR when using Spokane Intl altimeter setting, increase LNAV Cats A and B visibility ¼ mile.
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MALSR



MISSED APPROACH: Climb to 7000
direct CIMAL and via 335° track to
CODSA and via 269° track to DIANN
and hold.

AWOS-3

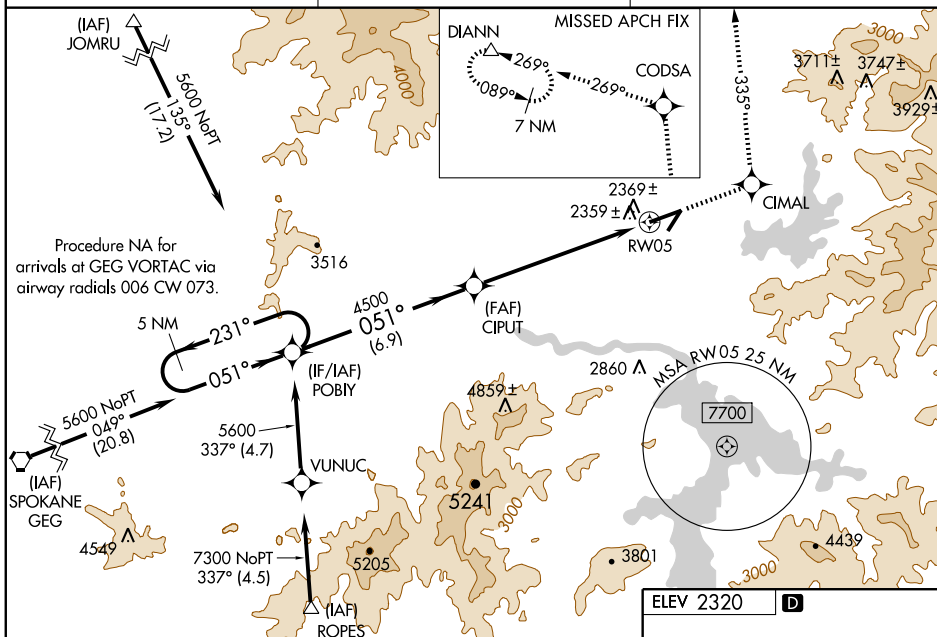
135.075

SPOKANE APP CON

132.1 263.0

UNICOM

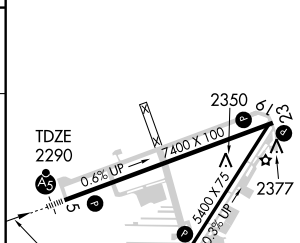
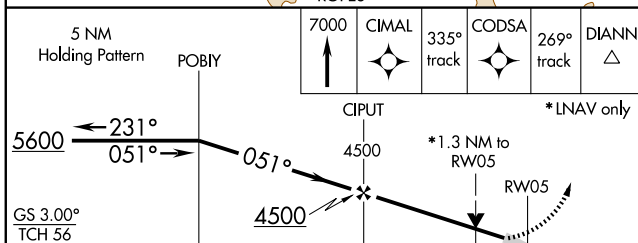
122.8 (CTAF)



NW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 2320

D



			6.9 NM	5.4 NM	1.3	
CATEGORY	A	B	C	D		
LPV DA	2490-1/2 200 (200-1/2)					
LNAV/ VNAV DA	2653-3/4 363 (400-3/4)					
LNAV MDA	2740-1/2 450 (500-1/2)			2740-3/4 450 (500-3/4)	2740-1 450 (500-1)	
CIRCLING	2740-1 420 (500-1)	2860-1 540 (600-1)	2880-1 1/2 560 (600-1 1/2)		2880-2 560 (600-2)	

MIRL Rwy 1-19 L

HIRE Rwy 5-23 L

REFL Rows 1 and 23 (1)

VOR/DME COE <u>108.8</u> Chan 25	APP CRS 344°	Rwy Idg 5400 TDZE 2311 Apt Elev 2320
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VOR/DME RWY 1

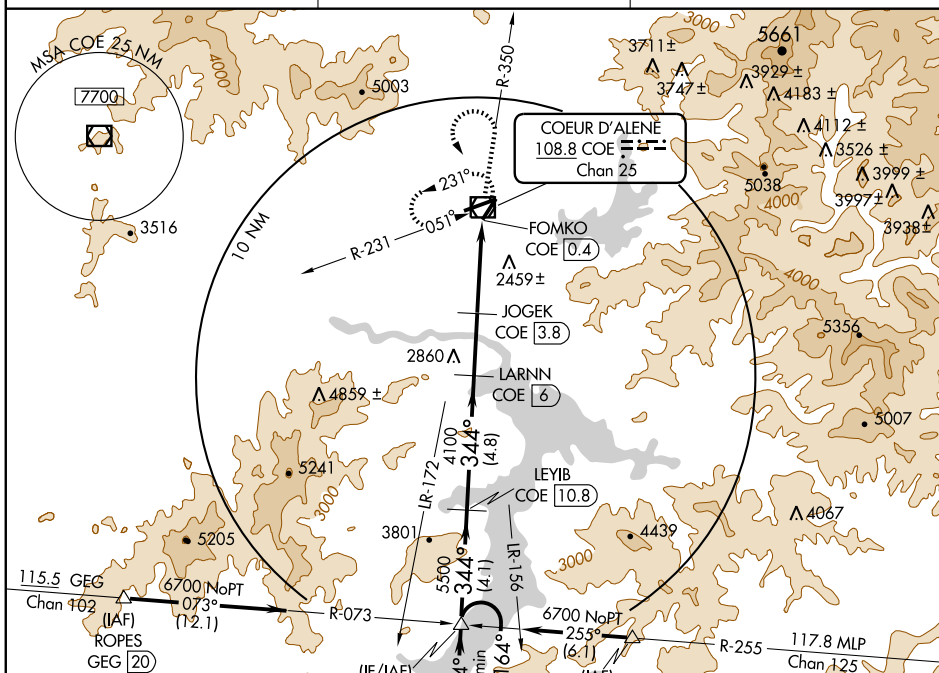
COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

T Visibility reduction by helicopters NA. When local altimeter setting
A not received, use Spokane Inlt altimeter setting and increase all
MDA 80 feet and S-1 and circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 6000 via COE R-350 outbound then climbing left turn to 6500 via COE R-350 inbound to COE VOR/DME and hold.

AWOS-3
135.075

SPOKANE APP CON
132.1 263.0

UNICOM
122.8 (CTAF) 

NW-1. 14 JAN 2010 to 11 FEB 2010

*3480 when using Spokane Intl altimeter setting.

One Minute Holding Pattern

HIPRR
OE 14.9

LEYB
COE 10

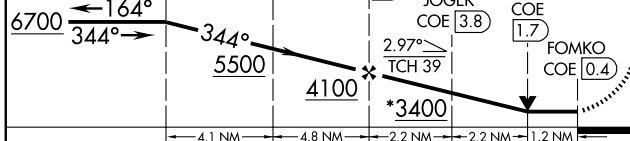
LARNN

6000 ↑ COE R-350 outbound	6500 ← COE R-350 inbound
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COE

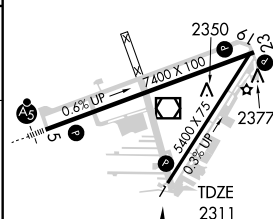
108.8

108.8



CATEGORY	A	B	C	D
S-1	2740-1	429 (500-1)	2740-1 $\frac{1}{4}$ 429 (500-1 $\frac{1}{4}$)	NA
CIRCLING	2740-1 420 (500-1)	2860-1 540 (600-1)	2880-1 $\frac{1}{2}$ 560 (600-1 $\frac{1}{2}$)	NA

ELEV 2320	D
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MIRL Rwy 1-19 **L**HIRL Rwy 5-23 **L**REIL Rwys 1 and 23 **L**

344° 5.6 NM →
from FAF

VOR/DME COE 108.8 Chan 25	APP CRS 057°	Rwy Idg 7400 TDZE 2290 Apt Elev 2320
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VOR RWY 5

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

▼ When local altimeter setting not received, use Spokane Intl altimeter setting and increase all MDA 80 feet and circling Cat C visibility to 1 ½ miles.

▲ VDP NA when using Spokane Intl altimeter setting. ADF or DME required.

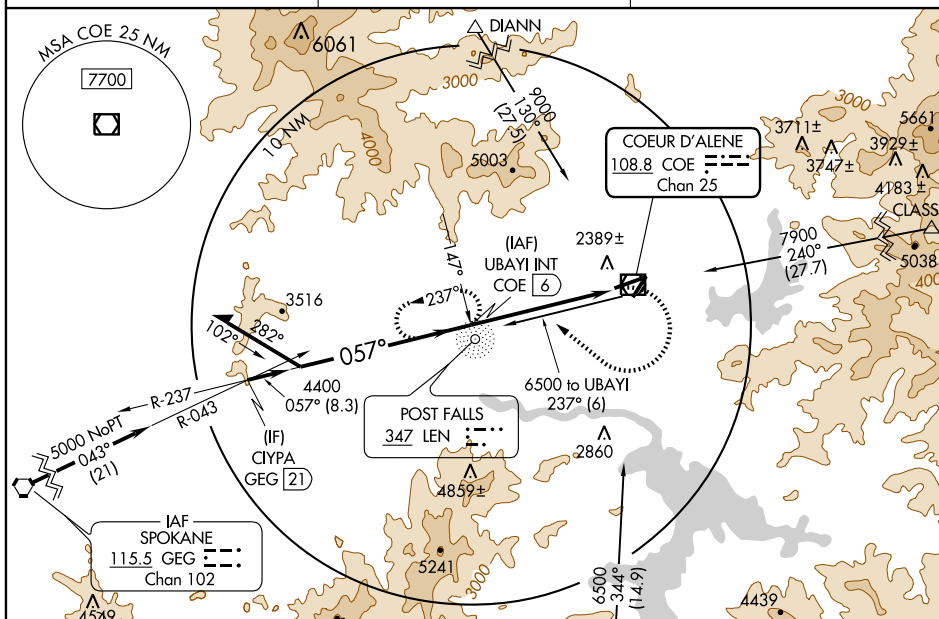
MALSR

MISSED APPROACH: Climbing right turn to 6500 via heading 290° and COE R-237 outbound then right turn via COE R-237 inbound to UDAYI INT/COE 6 DME and hold.

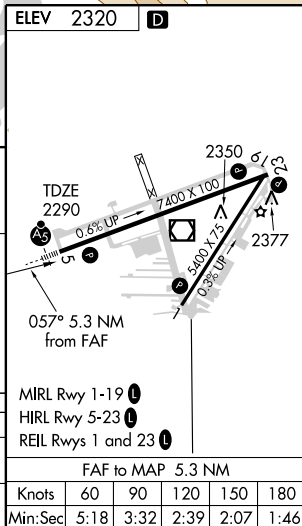
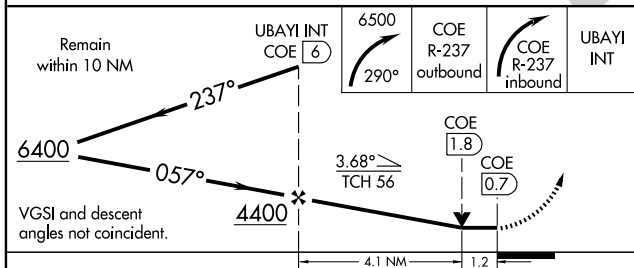
AWOS-3
135.075

SPOKANE APP CON
132.1 263.0

UNICOM
122.8 (CTAF) **L**



ADF or DME REQUIRED

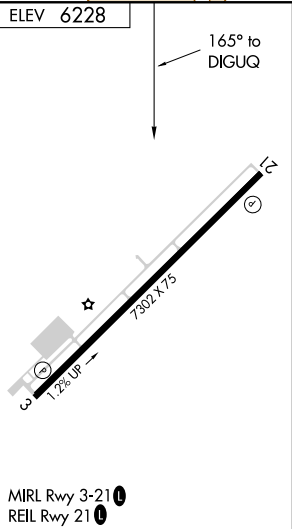
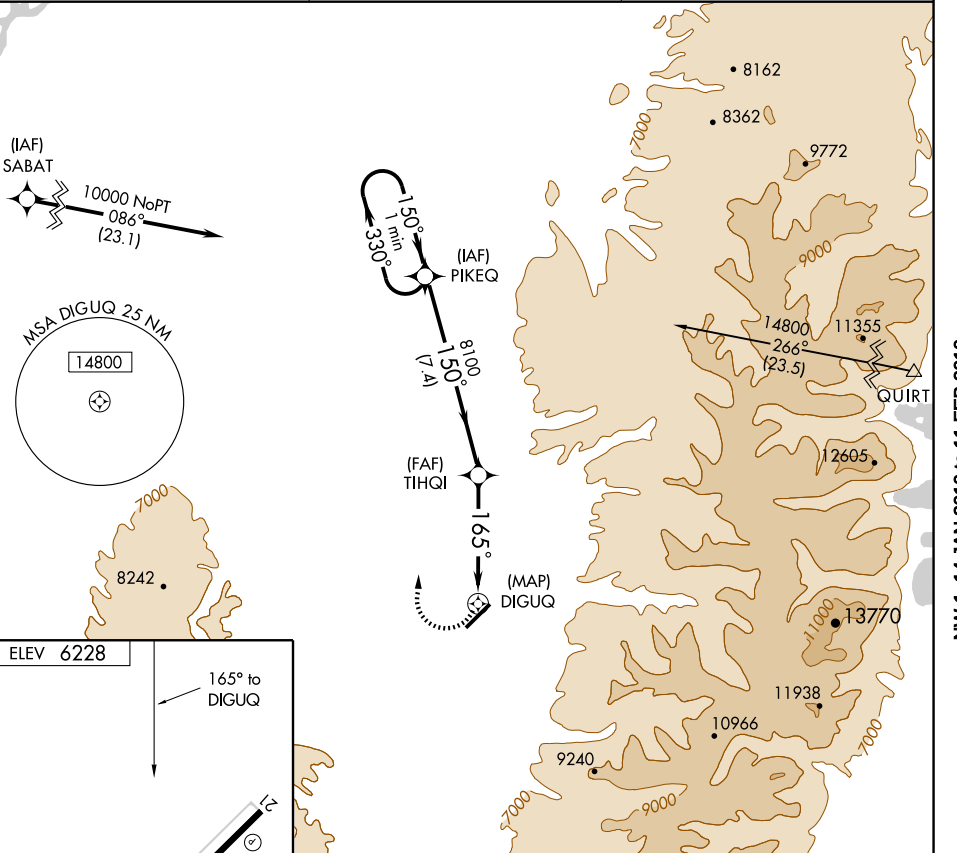


▼

▲ NA

MISSED APPROACH: Climbing right turn to 10000 direct PIKEQ and hold.

ASOS 120.775	SALT LAKE CENTER 132.4 239.25	UNICOM 122.7 (CTAF) 0
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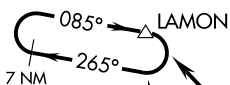


One Minute Holding Pattern		PIKEQ		10000	PIKEQ
10000		330° 150°		150°	TIHQI
		8100		165°	DIGUQ
		7.4 NM		4.6 NM	
CATEGORY	A	B	C	D	
CIRCLING	6780-1	552 (600-1)	6800-1½ 572 (600-1½)	6860-2 632 (700-2)	

NW-1, 14 JAN 2010 to 11 FEB 2010

LAMON TWO DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
132.4 239.25
UNICOM 122.7 (CTAF)



TAKE-OFF MINIMUMS

Rwy 3: Standard with minimum climb of
250' per NM to 7400.

Rwy 21: Standard.

NOTE: GPS required.

NOTE: RNAV 1

TAKE-OFF OBSTACLE NOTES

Rwy 3: Trees 1227' from DER, 343' left of centerline, 50' AGL/6266' MSL.

Trees 697' from DER, 327' right of centerline, 50' AGL/6246' MSL.

Trees 2106' from DER, 469' right of centerline, 50 AGL/6282' MSL.

Rwy 21: Building 1437' from DER, 730' left of centerline, 70' AGL/6189' MSL.

Building 52' from DER, 473' right of centerline, 50 AGL/6191' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb heading 033° to 6700, then climbing left turn
direct LAMON. Thence....

TAKE-OFF RUNWAY 21: Climb heading 213° to 6600, then climbing right turn
direct LAMON. Thence....

....cross LAMON at or above MEA for direction of flight. If required, continue climb
in LAMON holding pattern to cross LAMON at or above MEA for direction of flight.

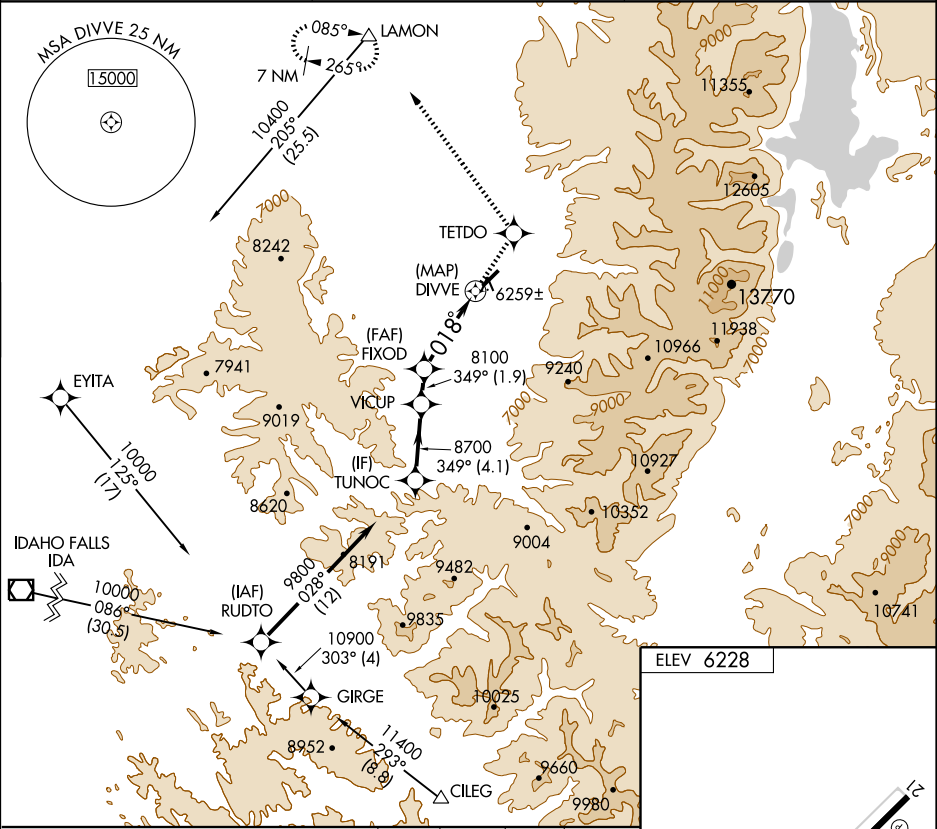
APP CRS	Rwy Idg	7302
018°	TDZE	6180
	Apt Elev	6228

RNAV (GPS) RWY 3

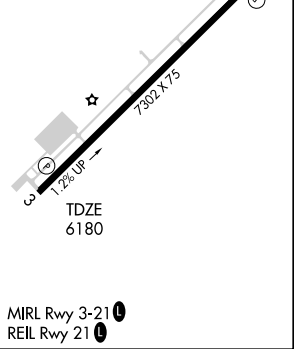
DRIGGS-REED MEMORIAL (DIJ)

NA	DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 9000 direct TETDO and via 309° track to LAMON and hold.
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ASOS 120.775	SALT LAKE CENTER 132.4 239.25	UNICOM 122.7 (CTAF)
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TUNOC		VICUP		FIXOD		TETDO		309° Track		LAMON	
9800		8700		8100		018°		DIVE			
Procedure Turn NA		VGSI and descent angles not coincident.				0.6 NM to DIVE		DIVE			
4.1 NM		1.9 NM		4.4 NM		0.6		0.5			
CATEGORY		A		B		C		D			
LNAV MDA		6520-1 340 (400-1)									
CIRCLING		6760-1 532 (600-1)		6780-1 552 (600-1)		6800-1½ 572 (600-1½)		6800-2 572 (600-2)			

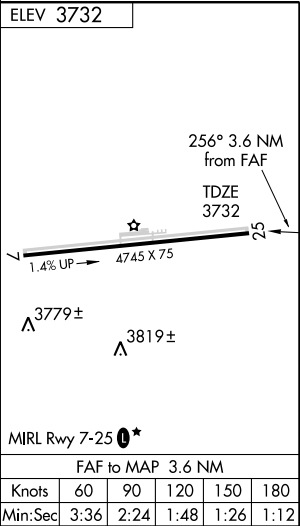
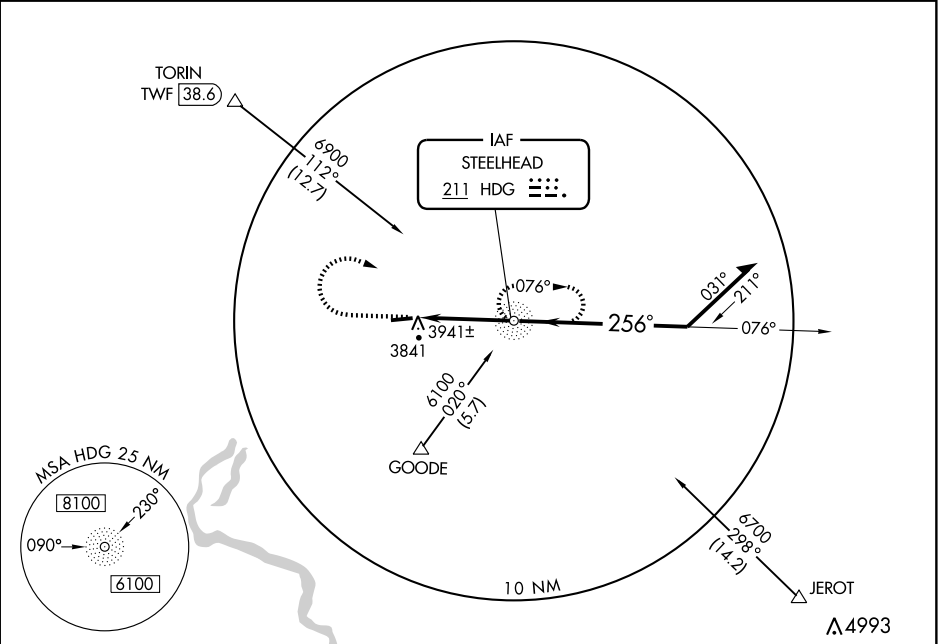


NDB HDG	APP CRS	Rwy Idg	4745
<u>211</u>	<u>256°</u>	TDZE	3732
		Apt Elev	3732

NDB RWY 25
GOODING MUNI (GNG)

Visibility reduction by helicopters NA. Obtain local altimeter setting on CTAF; when not received use Jerome County altimeter setting.	MISSED APPROACH: Climb to 4700 then climbing right turn to 5600 direct HDG NDB and hold.
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SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) 0*
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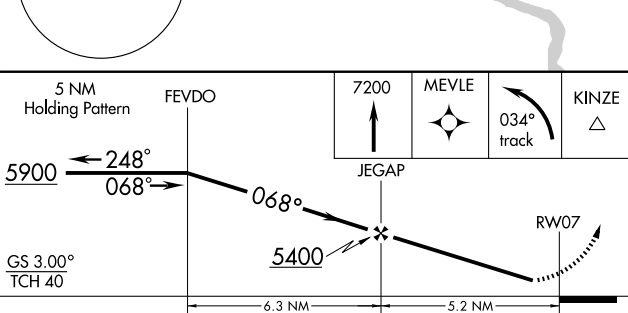
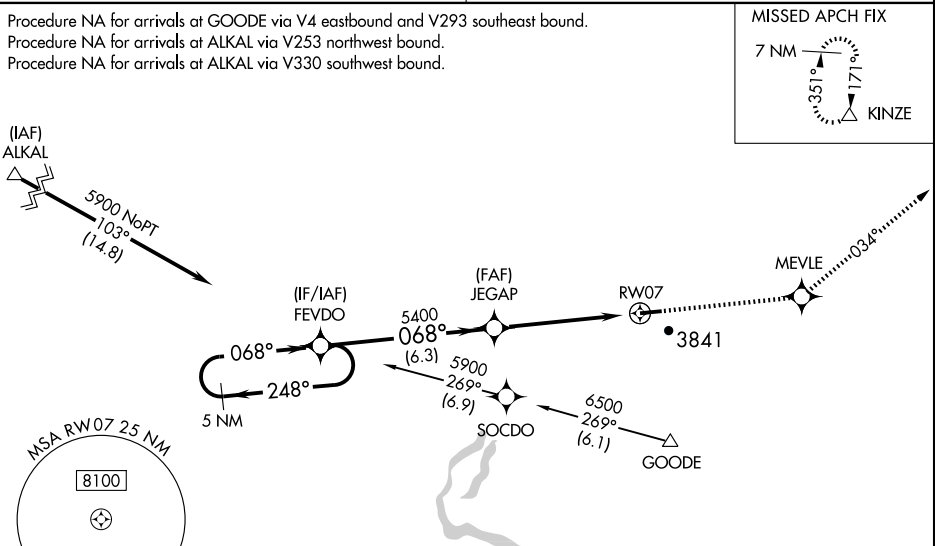
	4700	5600	HDG 211	NDB	Remain within 10 NM
				076°	6100
				256°	4900
				2.93° TCH 40	
				3.6 NM	
CATEGORY	A	B	C	D	
S-25	4260-1	528 (600-1)	4260-1½ 528 (600-1½)	4260-1¾ 528 (600-1¾)	
CIRCLING	4260-1	528 (600-1)	4260-1½ 528 (600-1½)	4300-2 568 (600-2)	
JEROME COUNTY ALTIMETER SETTING MINIMUMS					
S-25	4340-1	608 (700-1)	4340-1¾ 608 (700-1¾)	4340-2 608 (700-2)	
CIRCLING	4340-1	608 (700-1)	4340-1¾ 608 (700-1¾)	4340-2 608 (700-2)	

WAAS CH 53709 W07A	APP CRS 068°	Rwy ldg TDZE Apt Elev	4745 3710 3732
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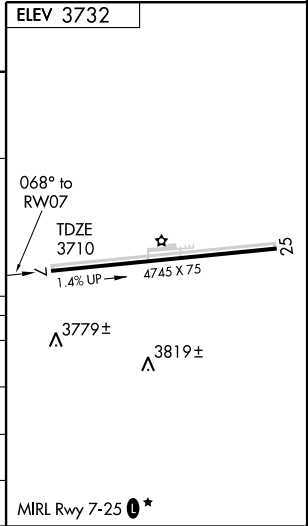
T DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
A Baro-VNAV NA when using Jerome County altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (105°F).
Obtain local altimeter setting on CTAF; when not received, use Jerome County altimeter setting and increase all DA 86 feet and all MDA 100 feet. Increase LPV visibility ¼ mile all Cats, LNAV/VNAV visibility ½ mile all Cats, LNAV visibility Cat C and D ¼ mile, and circling visibility Cat C ¼ mile.

MISSED APPROACH: Climb to 7200 direct MEVLE and left turn via 034° track to KINZE and hold.

SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) 0*
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CATEGORY	A	B	C	D
LPV DA	3960-1 250 (300-1)			
LNAV/VNAV DA	4049-1¼ 339 (400-1¼)			
LNAV MDA	4120-1 410 (400-1)		4120-1¼ 410 (400-1¼)	
CIRCLING	4260-1 528 (600-1)		4260-1½ 4300-2 528 (600-1½) 568 (600-2)	



WAAS CH 45909 W25A	APP CRS 248°	Rwy Idg 4745 TDZE 3732 Apt Elev 3732
--	------------------------	---

RNAV (GPS) RWY 25
GOODING MUNI (GNG)

GOODING MUNI (GNG)

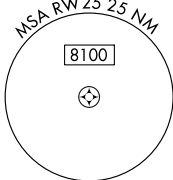
T
A

DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
Baro-VNAV NA when using Jerome County altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C
(-7°F) or above 41°C (105°F).
Obtain local altimeter setting on CTAF; when not received, use Jerome County
altimeter setting and increase all DA 86 feet and all MDA 100 feet. Increase LPV
visibility ¼ mile all Cats, LNAV/VNAV visibility ¼ mile all Cats, LNAV visibility
Cat C and D ¼ mile, and circling visibility Cat C ¼ mile.

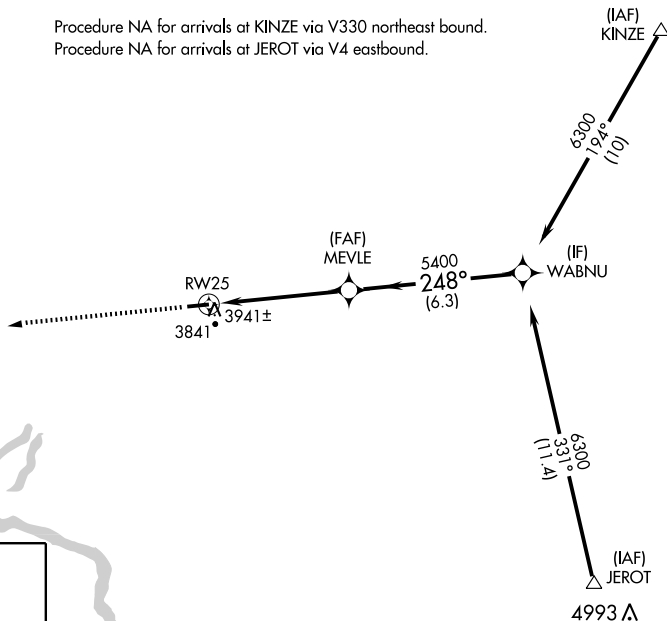
MISSED APPROACH: Climb to 5900
direct FEVDO and hold.

SALT LAKE CENTER
118.05 363.0

UNICOM
122.8 (CTAF) 

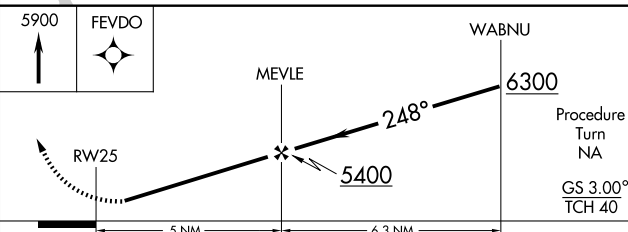


Procedure NA for arrivals at KINZE via V330 northeast bound.
Procedure NA for arrivals at JEROT via V4 eastbound.



NW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 3732



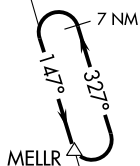
CATEGORY	A	B	C	D
LPV DA	4006-1 274 (300-1)			
LNAV/ VNAV DA	4211-1 ³ / ₄ 479 (500-1 ³ / ₄)			
LNAV MDA	4200-1 468 (500-1)	4200-1 ¹ / ₄ 468 (500-1 ¹ / ₄)	4200-1 ¹ / ₂ 468 (500-1 ¹ / ₂)	
CIRCLING	4260-1 528 (600-1)	4260-1 ¹ / ₂ 528 (600-1 ¹ / ₂)	4300-2 568 (600-2)	

MIRL Rwy 7-25 **L** ★

(MELLR) 08157 SL-9060 (FAA)
MELLR ONE DEPARTURE (RNAV) (OBSTACLE)

GRANGEVILLE/IDAHO COUNTY (S80)
GRANGEVILLE, IDAHO

SEATTLE CENTER
123.95 282.3



TAKE-OFF OBSTACLE NOTES

Rwy 25: Equipment 61' from DER, 161' right of centerline, 7' AGL/3291' MSL.
Vehicles on road beginning 251' from DER, 134' right of centerline, up to 15' AGL/3292' MSL.

TAKE-OFF MINIMUMS

Rwy 7: NA - Obstacles.
Rwy 25: Standard.

294°
(18)

RIDIH

254°
(10)

FIDIT

(4)

NOTE: GPS Required.

NOTE: RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 25: Climb direct FIDIT then via depicted route to MELLR.

Maintain 7400 or assigned altitude. Aircraft southeast bound on V253 continue climb in MELLR holding pattern to MEA before proceeding enroute.

APP CRS 073°	Rwy Idg TDZE Apt Elev	5001 3302 3314
------------------------	-----------------------------	---

RNAV (GPS) RWY 7

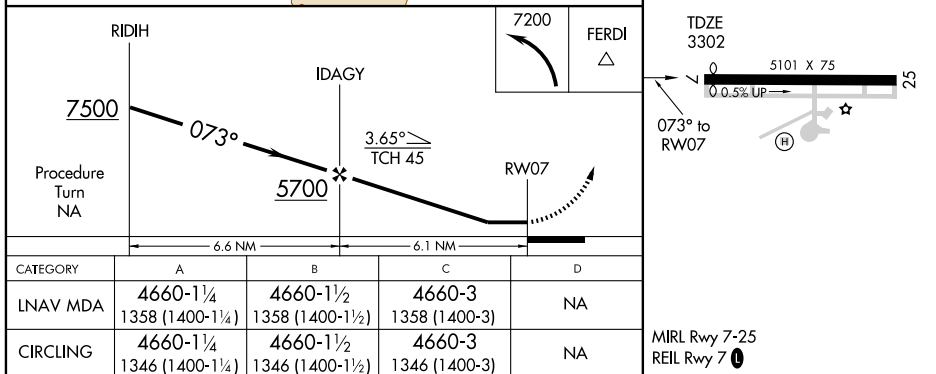
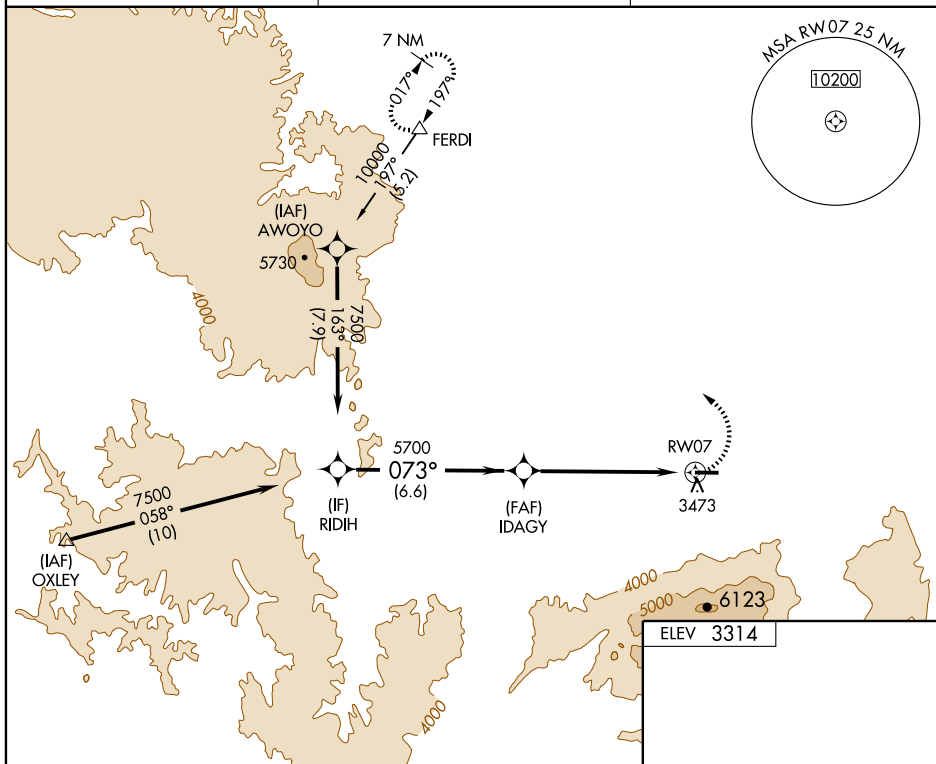
GRANGEVILLE/ IDAHO COUNTY (S80)

	Circling NA south of Rwy 7-25.
 NA	DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Lewiston-Nez Perce County altimeter setting; when not received, use Pullman/Moscow Rgnl altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climbing left turn to 7200 direct FERDI and hold.

LEWISTON-NEZ PERCE COUNTY ASOS
135,575

SEATTLE CENTER
123.95 282.3

CTAF
122.9 

APP CRS	Rwy Idg	5101
239°	TDZE	3314
	Apt Elev	3314

RNAV (GPS) RWY 25

GRANGEVILLE/IDAHO COUNTY (S80)



Circling NA south of Rwy 7-25.

DME/DME RNP-0.3 NA.

Use Lewiston-Nez Perce County altimeter setting; when not received, use Pullman/Moscow Rgnl altimeter setting and increase all MDA 40 feet.

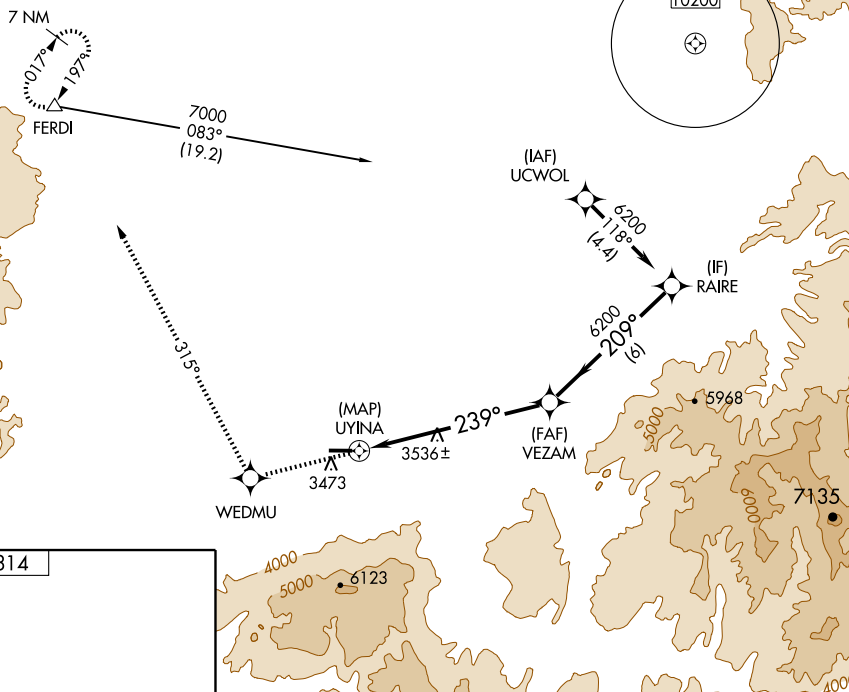
MISSED APPROACH: Climb to 7200 direct WEDMU and via 315° track to FERDI and hold, continue climb-in-hold to 7200.

LEWISTON-NEZ PERCE COUNTY ASOS
135.575

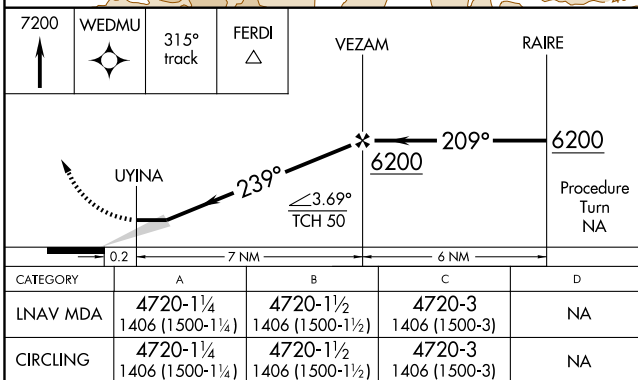
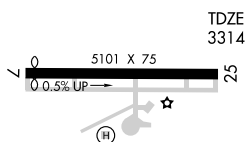
SEATTLE CENTER
123.95 282.3

CTAF
122.9 **L**

Procedure NA for arrivals at FERDI
via V520 northwest bound.



ELEV 3314



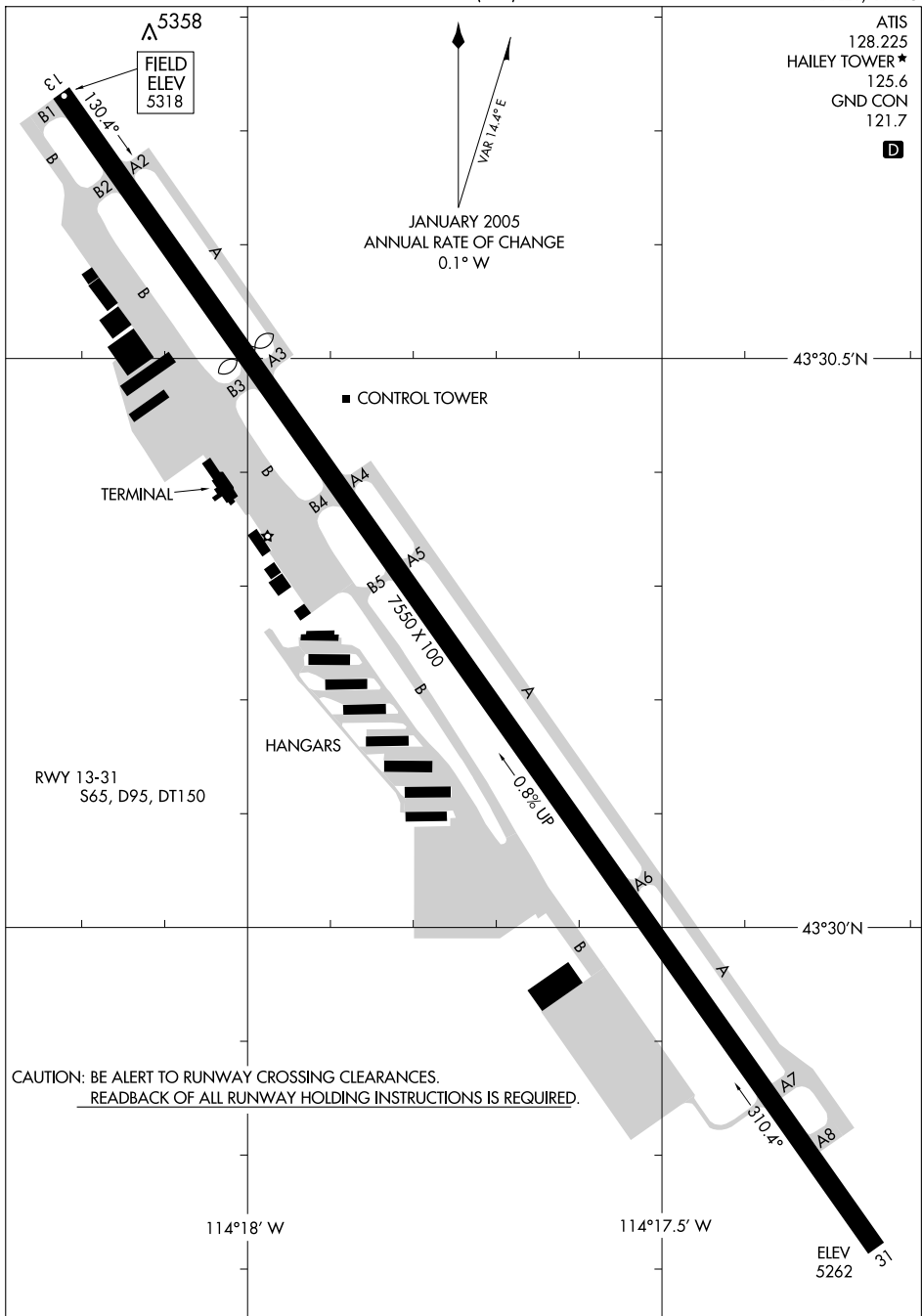
MIRL Rwy 7-25

REIL Rwy 7 **L**

AIRPORT DIAGRAM

HAILEY / FRIEDMAN MEMORIAL (SUN)

HAILEY, IDAHO



AURELIA TWO DEPARTURE (RNAV)

TAKE-OFF OBSTACLE NOTES

Rwy 13: Multiple trees beginning 763' from DER, 3' right of centerline, up to 100' AGL/5345' MSL.

TAKE-OFF MINIMUMS

Rwy 13: Standard with minimum climb of 400' per NM to 6700.
ATC climb of 400' per NM to 7300.

Rwy 31: NA, Obstacles.

NOTE: GPS Required.

NOTE: RNAV 1.

GND CON

121.7

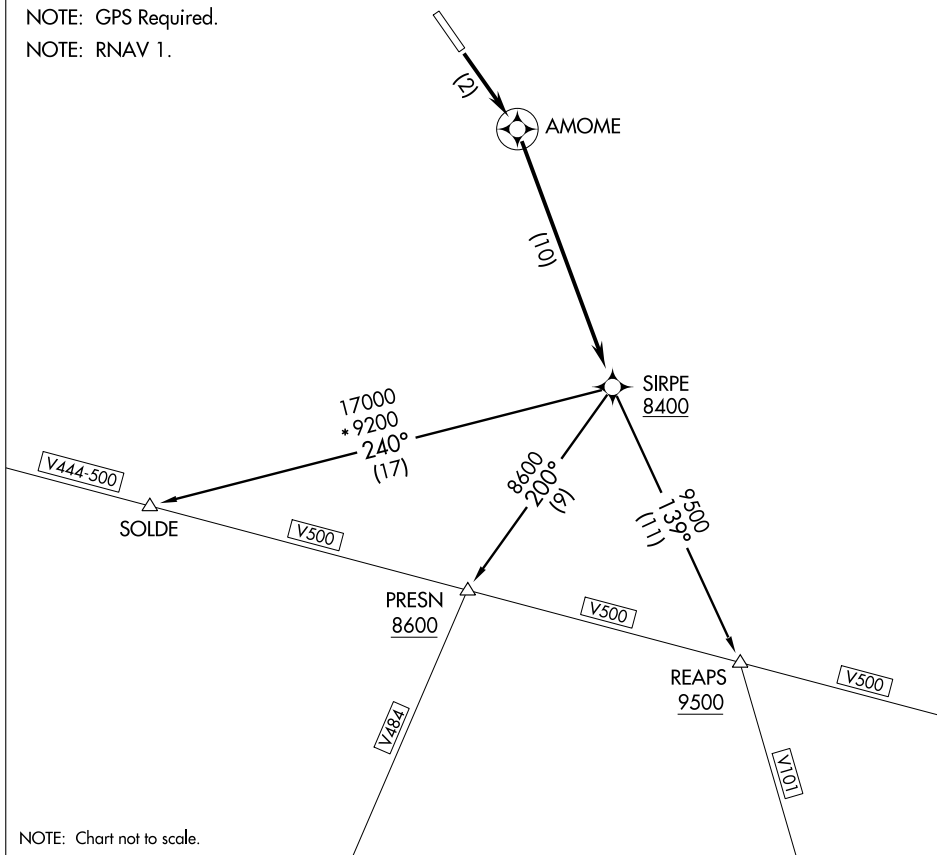
HAILEY TOWER ★

125.6

SALT LAKE CENTER

118.05 353.0

UNICOM 122.95



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 13: Climb direct AMOME, then climbing right turn direct SIRPE to cross SIRPE; cross SIRPE at or above 8400, Thence....via (Transition).

PRESN TRANSITION (AUREL2.PRESN)

REAPS TRANSITION (AUREL2.REAPS)

SOLDE TRANSITION (AUREL2.SOLDE)

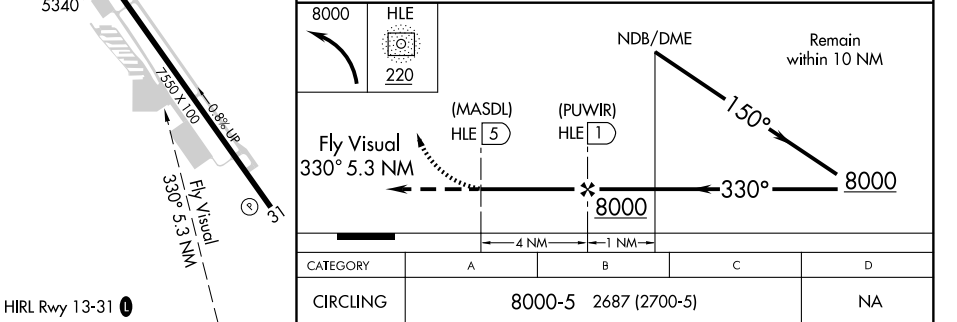
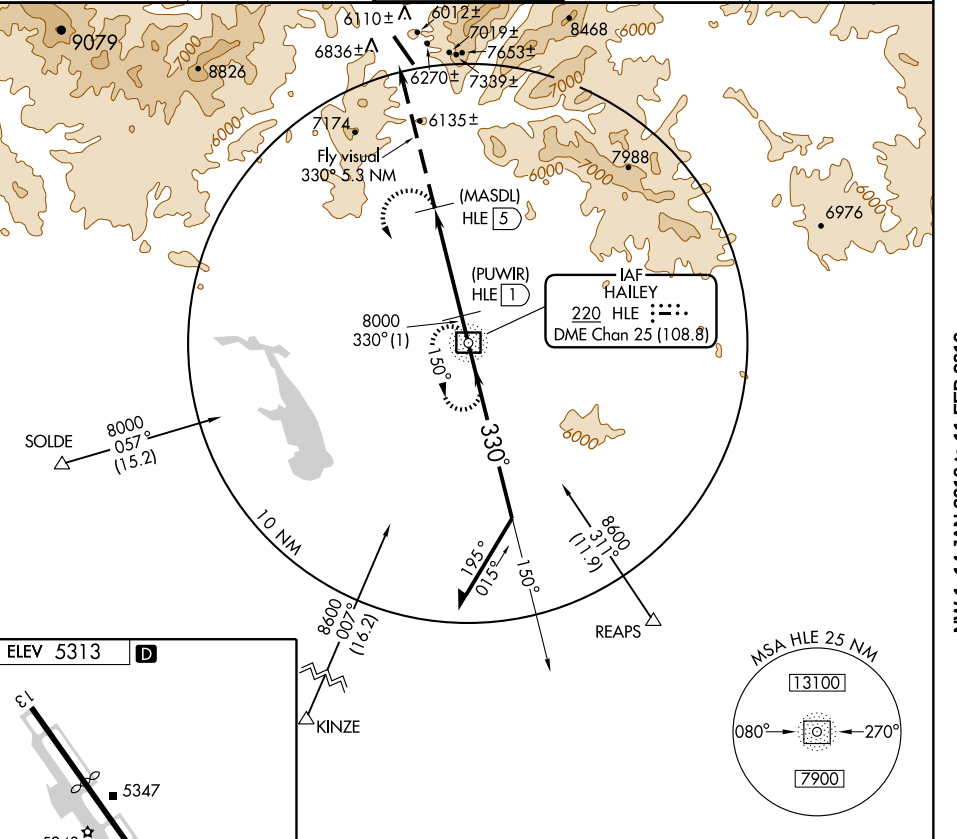
Occasional ADF needle swings away from the final approach course are to be expected north of missed approach point.

When control tower closed, procedure not authorized.

Procedure not authorized at night.

MISSED APPROACH: Left turn to 8000 direct HLE NDB/DME and hold.

ATIS 128.225	SALT LAKE CENTER 118.05 353.0	HAILEY TOWER★ 125.6 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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APP CRS 323°	Rwy Idg TDZE Apt Elev	6631 5290 5318
------------------------	-----------------------------	---

RNAV (GPS) W RWY 31

HAILEY/FRIEDMAN MEMORIAL (SUN)

T	Circling NA at night.
A	Circling NA east of Rwy 13-31. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

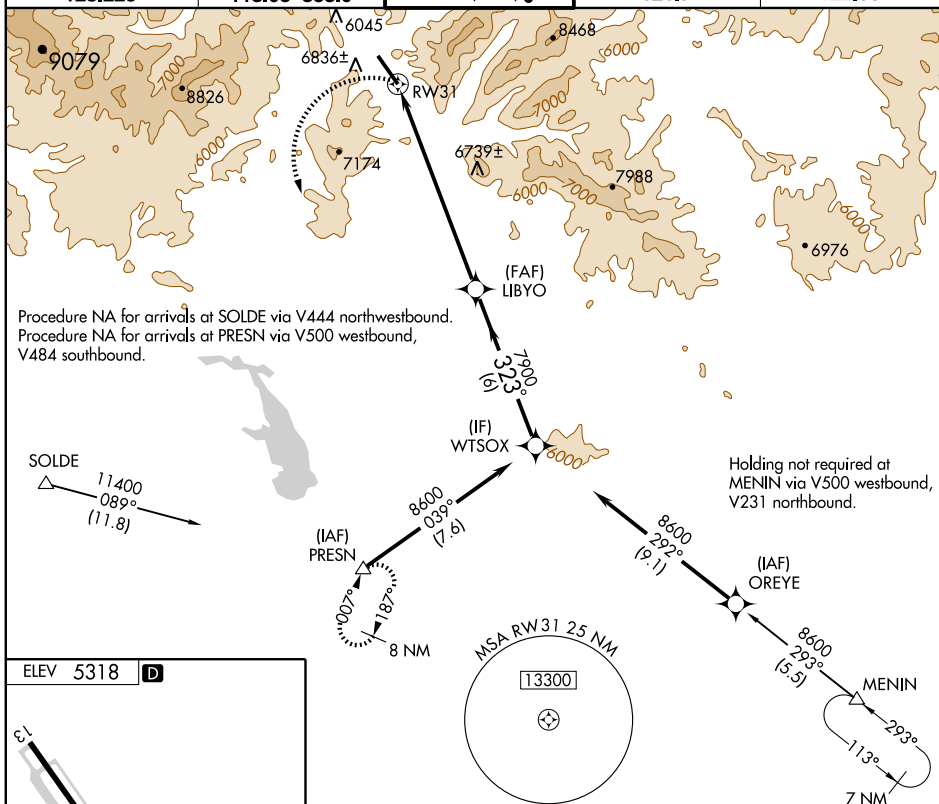
MISSED APPROACH: Climbing left turn to 8700 direct PRESN and hold.

ATIS
128.225

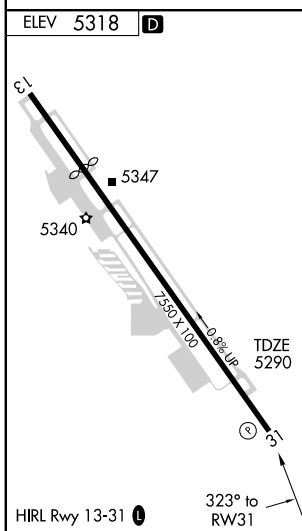
SALT LAKE CENTER
118.05 353.0

HAILEY TOWER ★
125.6 (CTAF) L

GND CON
121.7

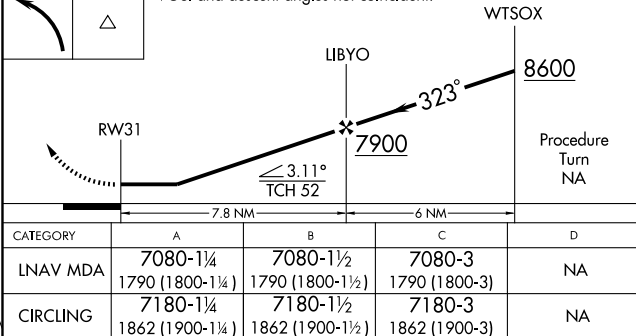
UNICOM
122.95

NW-1. 14 JAN 2010 to 11 FEB 2010



8700	PRESN
	

VGS1 and descent angles not coincident.



APP CRS 314°	Rwy Idg TDZE Apt Elev	6631 5290 5318
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RNAV (RNP) Y RWY 31

HAILEY/FRIEDMAN MEMORIAL (SUN)

	GPS required. When VGSI inoperative, procedure NA at night.
 NA	For uncompensated Baro-VNAV systems, procedure NA below -25°C (-14°F) or above 37°C (99°F). Missed approach requires RNP less than 1.0 and minimum climb of 330 feet per NM to 14500. Visibility reduction by helicopters NA. Final approach course offset 5.00°.

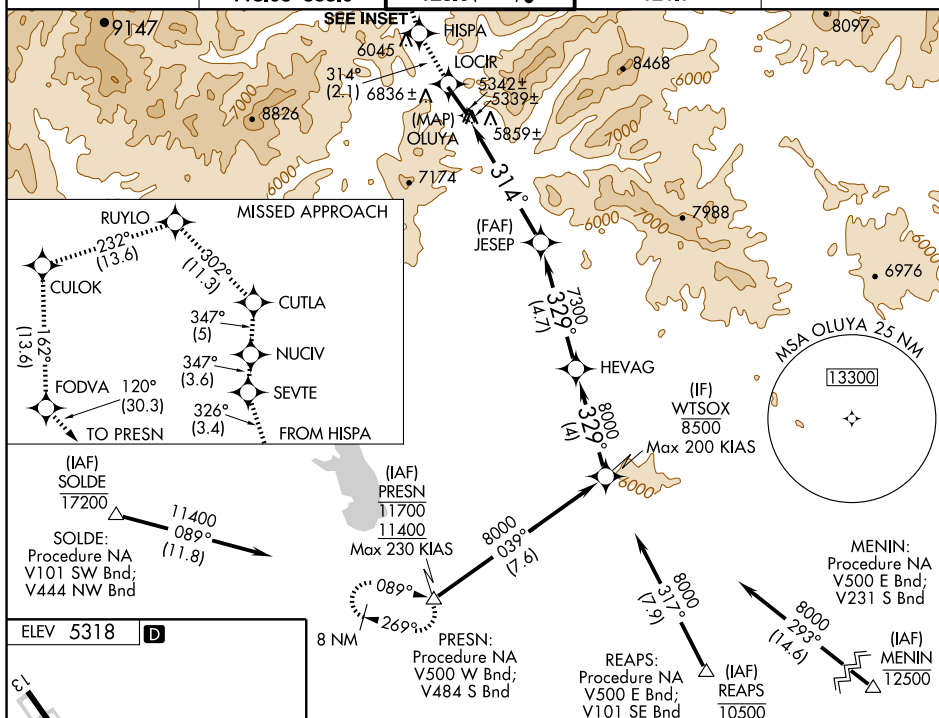
MISSED APPROACH: Climb to 15000 via 314° track to LOCIR, 314° track to HISPA, 326° track to SEVTE, 347° track to NUCIV, 347° track to CUTLA, 302° track to RUYLO, 232° track to CULOK, 162° track to FODVA, 120° track to PRESN and hold.

ATIS
128.225

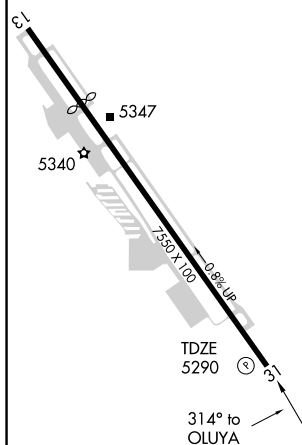
SALT LAKE CENTER
118 05 353 0

HAILEY TOWER ★
125.6 (CTAF) ①

GND CON
121.7

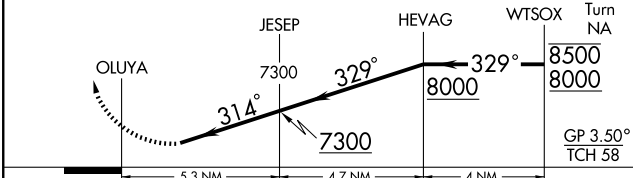
UNICOM
122.95

ELEV 5318	D
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15000	LOCIR	HISPA	SEVTE	NUCIV	CUTLA	RUYLO	CULOK	FODVA	PRESN
									
	314° track	314° track	326° track	347° track	347° track	302° track	232° track	162° track	120° track

Procedure	Turn
	NA



CATEGORY	A	B	C	D
RNP 0.30 DA	6264-3	974 (1000-3)		NA

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

JW-1 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-590 (FAA)

IDAHO FALLS RGNL (IDA)
IDAHO FALLS, IDAHO

ATIS
135.325
IDAHO FALLS TOWER ★
118.5 257.8
GND CON
121.7

VAR 13.6°E
JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

43°31'N

FIELD
ELEV
4744

9002 X 150

RWY 2-20
S140, D175, ST175, DT270
RWY 17-35
S43, D58

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

43°30'N

112°05'W

112°04'W

HOT³
ELEV 4731
HOT²
A-1
201.4°
HOT¹
4051 X 75
FIRE STATION
TWR 4833
PASSENGER TERMINAL
ELEV 4731
35
168.3°
348.3°
B
C

NW-1. 14 JAN 2010 to 11 FEB 2010

LOC/DME FIDA <u>111.1</u> Chan 48	APP CRS 203°	Rwy Idg 9002 TDZE 4735 Apt Elev 4744
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ILS or LOC RWY 20
IDAHO FALLS RGNL (IDA)

T * Visibility CAT A/B/C/D, RVR 1800 authorized
A with the use of FD or AP or HUD to DA.

MALSR

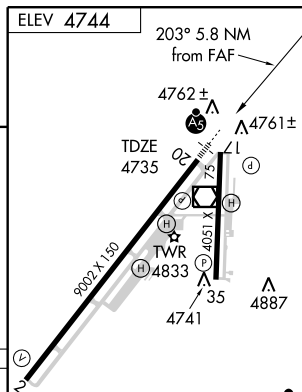
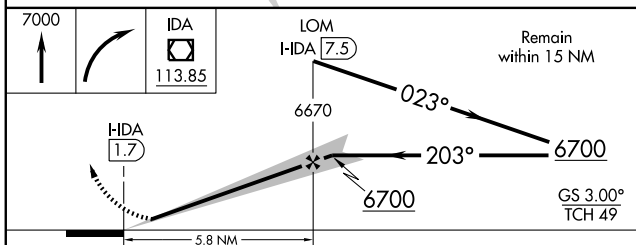
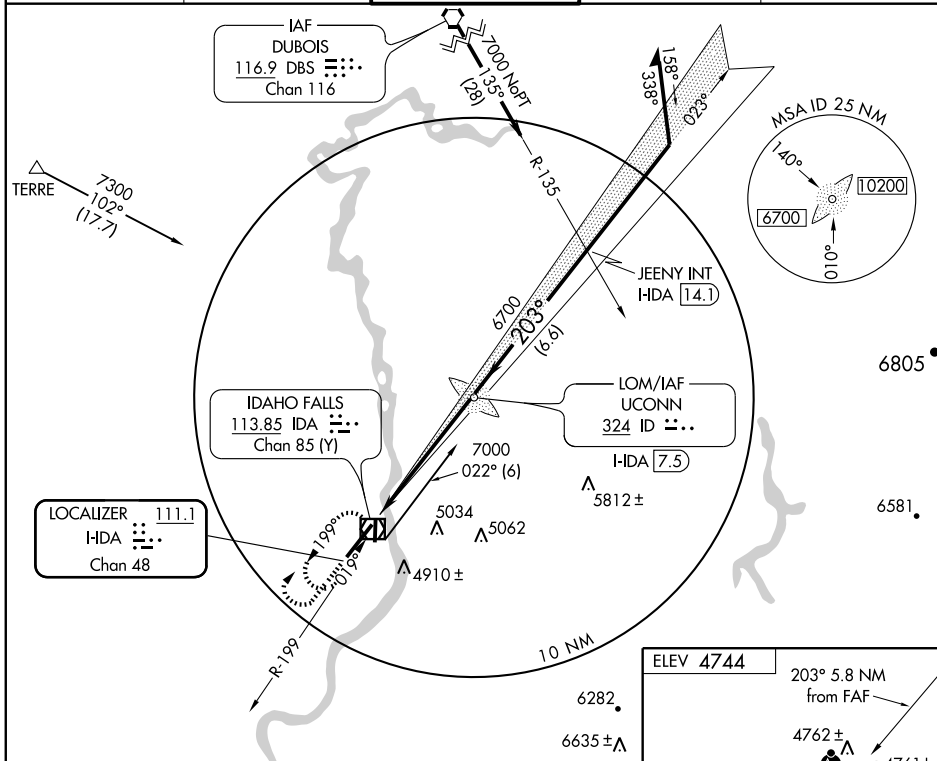
MISSED APPROACH: Climb to 7000, then right turn direct IDA VOR/DME and hold.

ATIS
135.325

SALT LAKE CENTER
128.35 239.25

IDAHO FALLS TOWER★
118.5 (CTAF) **L** 257.8

GND CON
121.7

UNICOM
122.95

CATEGORY	A	B	C	D	E
S-ILS 20	*4935/24 200 (200-½)				
S-LOC 20	5140/24 405 (400-½)		5140/40 405 (400-¾)		5140/50 405 (400-1)
CIRCLING	5200-1 456 (500-1)	5220-1 476 (500-1)	5260-1½ 516 (600-1½)	5340-2 596 (600-2)	5420-2½ 676 (700-2½)

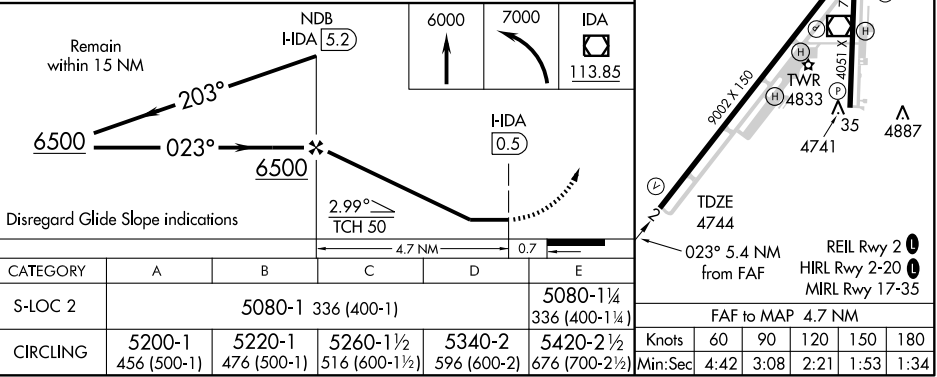
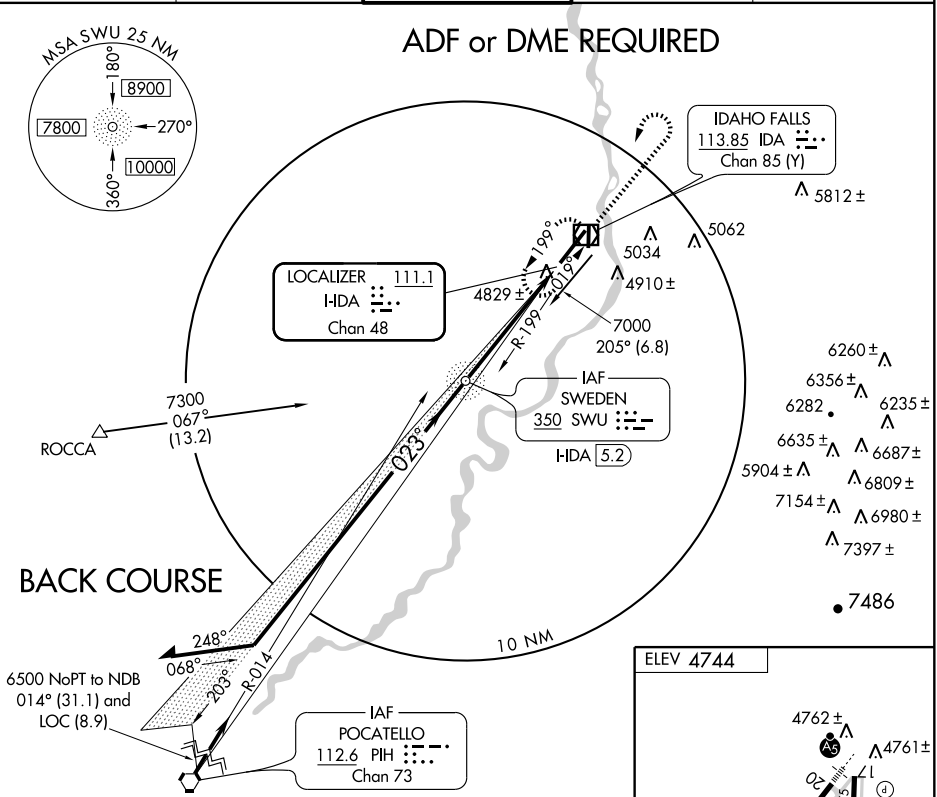
FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

⚠

⚠

MISSED APPROACH: Climb to 6000 then climbing left turn to 7000 direct IDA VOR/DME and hold.

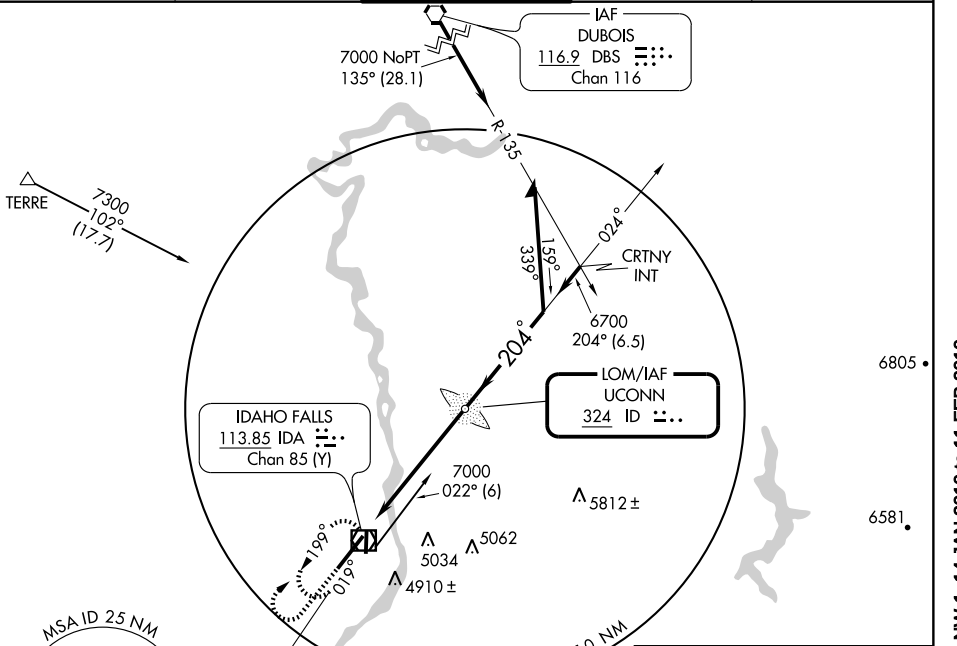
ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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MALSR

MISSED APPROACH: Climb to 7000 then right turn direct IDA VOR/DME and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 257.8	GND CON 121.7	UNICOM 122.95
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7000

IDA 113.85

LOM

024°

Remain within 10 NM

6700

204°

6700

5.8 NM

CATEGORY	A	B	C	D
S-20	5220/40	485 (500-¾)		5220/60 485 (500-1¼)
CIRCLING	5220-1	476 (500-1)	5260-1½ 516 (600-1½)	5340-2 596 (600-2)

ELEV 4744

204° 5.8 NM from FAF

4762±

4761±

TDZE 4735

75

4051

TWR 4833

35

4741

4887

REIL Rwy 2

HIRL Rwy 2-20

MIRL Rwy 17-35

FAF to MAP 5.8 NM

Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

NW-1. 14 JAN 2010 to 11 FEB 2010

▼

DME/DME RNP-0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 39°C (103°F).

When VGSI inoperative, circling Rwy 35 NA at night.

MISSED APPROACH: Climb to 7500 direct TOCYU and left turn via 284° track to TERRE and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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MISSED APCH FIX

7 NM

360°

180°

TERRE

MSA RW02 2.5 NM

9000

(IAF) ROCOA

7000 NoPT

091°

(9.9)

IDAHO FALLS IDA

RW02

4755±

5034

5812±

5062

4910±

7100 to VIPUC

204° (12.6)

(FAF) UGADE

6500

023°

(6)

(IF/IAF) VIPUC

203°

7 NM

6260±

6356±

6282

6235±

6635±

5904±

7154±

7397±

6687±

6809±

6980±

ELEV 4744

7 NM Holding Pattern

VIPUC

7500

TOCYU

284° track

TERRE

UGADE

*1 NM to RW02

*LNAV only

RW02

7000

203°

023°

6500

6 NM

4.3 NM

1 NM

GS 3.00°

TCH 50

CATEGORY	A	B	C	D
LPV DA	4994-3/4 250 (300-3/4)			
LNAV/VNAV DA	5135-1 391 (400-1 1/4)			
LNAV MDA	5100-1 356 (400-1)			5100-1 356 (400-1 1/4)
CIRCLING	5200-1 456 (500-1)	5220-1 476 (500-1)	5260-1 516 (600-1 1/2)	5340-2 596 (600-2)

4762±

4761±

4741

4887

4741

4833

4051

35

9002 X 150

TDZE 4744

023° to RW02

REIL Rwy 2

HIRL Rwy 2-20

MIRL Rwy 17-35

NW-1. 14 JAN 2010 to 11 FEB 2010

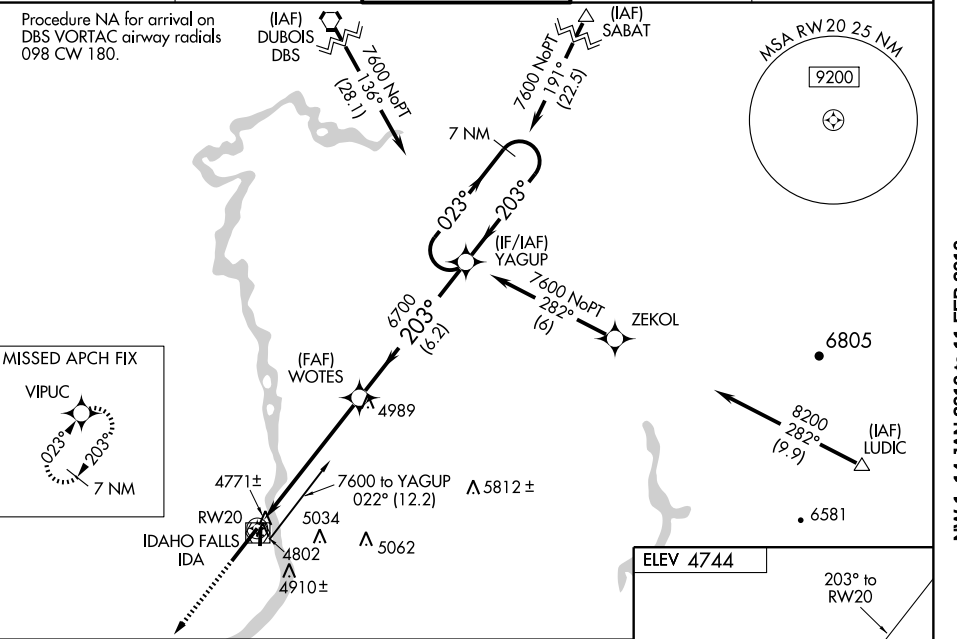
T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 39°C (102°F). DME/DME RNP-0.3 NA.

A VDP and Baro-VNAV NA when using Rexburg-Madison County altimeter setting. When local altimeter setting not received, use Rexburg-Madison County altimeter setting and increase all DA 68 feet and all MDA 80 feet and increase LNAV/VNAV visibility all Cats ¼ mile. When VGSI inoperative, circling Rwy 35 NA at night. For inoperative MALSR increase visibility LNAV Cat D to 1¼ mile. For inoperative MALSR when using Rexburg-Madison County altimeter setting increase LPV visibility all Cats to 1 mile.

MALSR

MISSED APPROACH: Climb to 7000 direct VIPUC and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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7000

VIPUC

*LNAV only

*1.1 NM to RW20

WOTES

YAGUP

7 NM Holding Pattern

203°

023°

7600

6700

GS 3.00° TCH 49

1.1

4.8 NM

6.2 NM

CATEGORY	A	B	C	D
LPV DA	4985/24		250 (300-½)	
LNAV/VNAV DA	5092/40		357 (400-¾)	
LNAV MDA	5140/24 405 (400-½)		5140/40 405 (400-¾)	5140/50 405 (400-1)
CIRCLING	5200-1 456 (500-1)	5220-1 476 (500-1)	5260-1½ 516 (600-1½)	5340-2 596 (600-2)

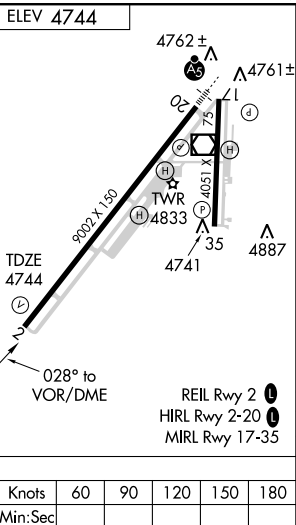
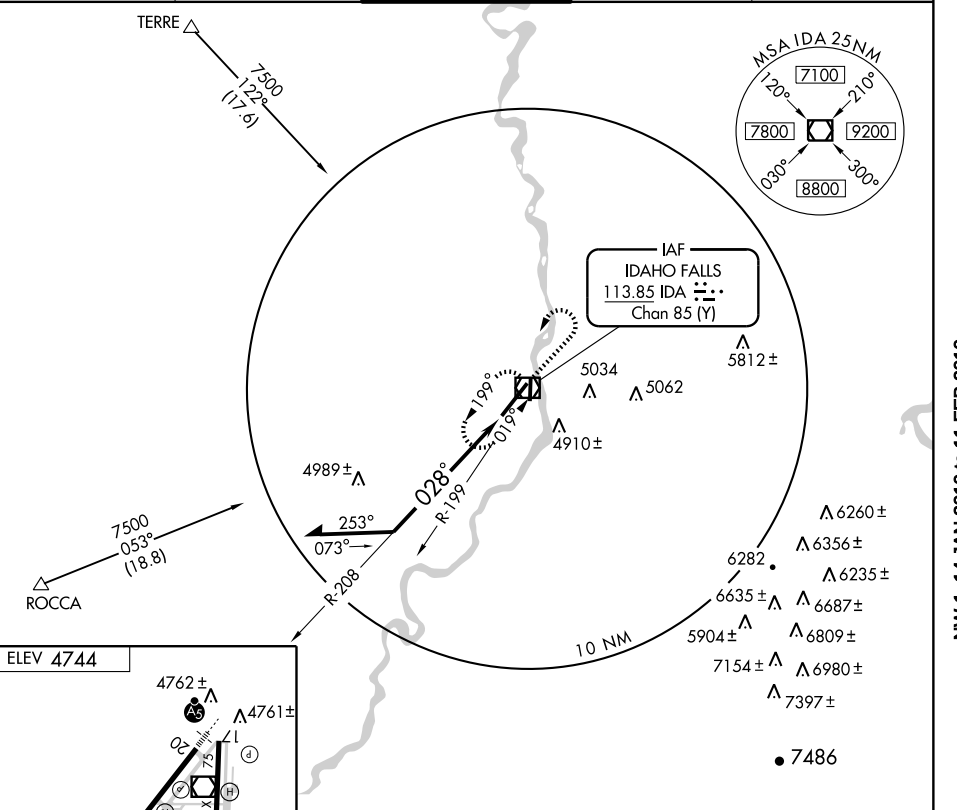
REIL Rwy 2 1

HIRL Rwy 2-20 1

MIRL Rwy 17-35

MISSED APPROACH: Climb to 6000 then climbing left turn to 7000 direct IDA VOR/DME and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER ★ 118.5 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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Remain within 10 NM		VOR/DME	6000	7000	IDA 113.85
6500		208°	028°		
CATEGORY	A	B	C	D	
S-2	5300-1	556 (600-1)	5300-1½ 556 (600-1½)	5300-1¾ 556 (600-1¾)	
CIRCLING	5300-1	556 (600-1)	5300-1½ 556 (600-1½)	5340-2 596 (600-2)	

⚠ When local altimeter setting not received, use Rexburg-Madison County altimeter setting and increase all MDA 80 feet and increase all Cat B visibilities ¼ mile and increase all Cat C and D visibilities ½ mile.

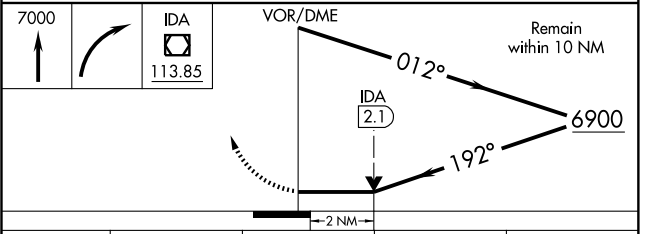
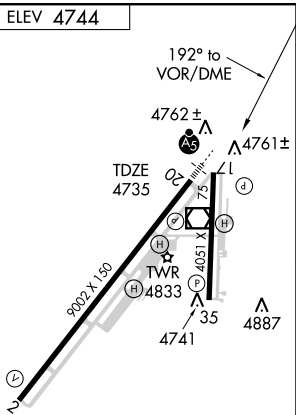
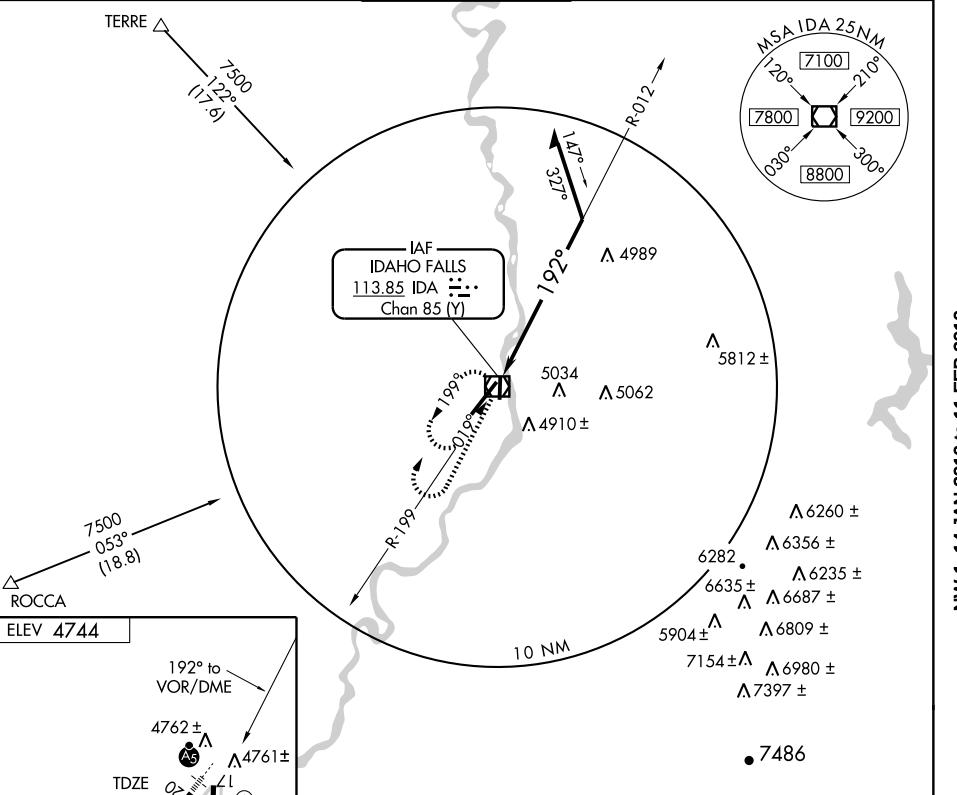
⚠ When VGSI inoperative, circling Rwy 35 NA at night.

VDP NA when using Rexburg-Madison County altimeter setting.

MALSR

MISSED APPROACH: Climb to 7000 then right turn direct IDA VOR/DME and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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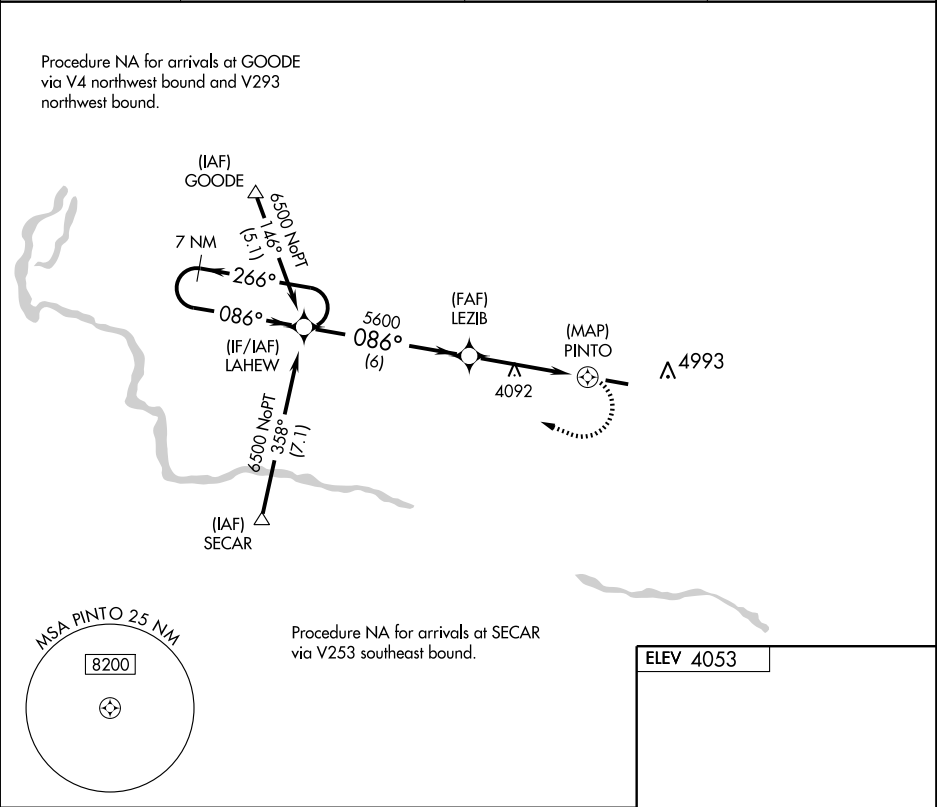
	CATEGORY	A	B	C	D
REIL Rwy 2 0	S-20	5400/24	665 (700-½)	5400/60 665 (700-1¼)	5400-1½ 665 (700-1½)
HIRL Rwy 2-20 0					
MIRL Rwy 17-35	CIRCLING	5400-1	656 (700-1)	5400-1¾ 656 (700-1¾)	5400-2 656 (700-2)

NW-1. 14 JAN 2010 to 11 FEB 2010

Circling NA north of Rwy 9-27. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Twin Falls altimeter setting and increase all MDA 60 feet, and increase LNAV Cat. D visibility ¼ mile.

MISSED APPROACH:
Climbing right turn to 6500 direct LAHEW and hold.

ASOS 135.225	TWIN FALLS APP CON ★ 126.7 353.75	SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) ①
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7 NM Holding Pattern 6500 ← 266° → 086° LAHEW 086° LEZIB 5600 PINTO 3.04° TCH 40 6 NM 4.3 NM 0.7 NM				
CATEGORY	A	B	C	D
LNAV MDA	4420-1	401 (400-1)	4420-1¼	401 (400-1¼)
CIRCLING	4480-1 427 (500-1)	4560-1 507 (600-1)	4560-1½ 507 (600-1½)	4620-2 567 (700-2)

6500

LAHEW

MRL Rwy 9-27 ①

RNAV (GPS) RWY 27
JEROME COUNTY (JER)

MISSED APPROACH:
Climb to 6500 direct
LAHEW and hold.

UNICOM
122.8 (CTAF) **L**

LAHEW

(FAF)
CITCO

(IF)
FANCO

(IAF)
SHONE

6100
214°
71

(IAF)
BURLEY
BYI

MSA RW 27 25 NM

8400

ELEV 4053

Procedure NA for arrivals at DRYAD
via V484 southeast bound.

Procedure NA for arrivals at BYI
VOR/DME via V4 eastbound
and V101 southeast bound.

LAHEW

FANCO

CITCC

6100

Procedure
Turn
NA

RW27

CATEGORY	A	B	C	D
LPV DA	4434-1¼ 381 (400-1¼)			
LNAV MDA	5300-1¼ 1247 (1300-1¼)	5300-1½ 1247 (1300-1½)	5300-3	1247 (1300-3)
CIRCLING	5300-1¼ 1247 (1300-1¼)	5300-1½ 1247 (1300-1½)	5300-3	1247 (1300-3)

M|RL Rwy 8-26 **L**

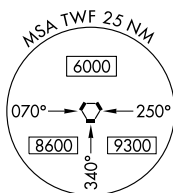
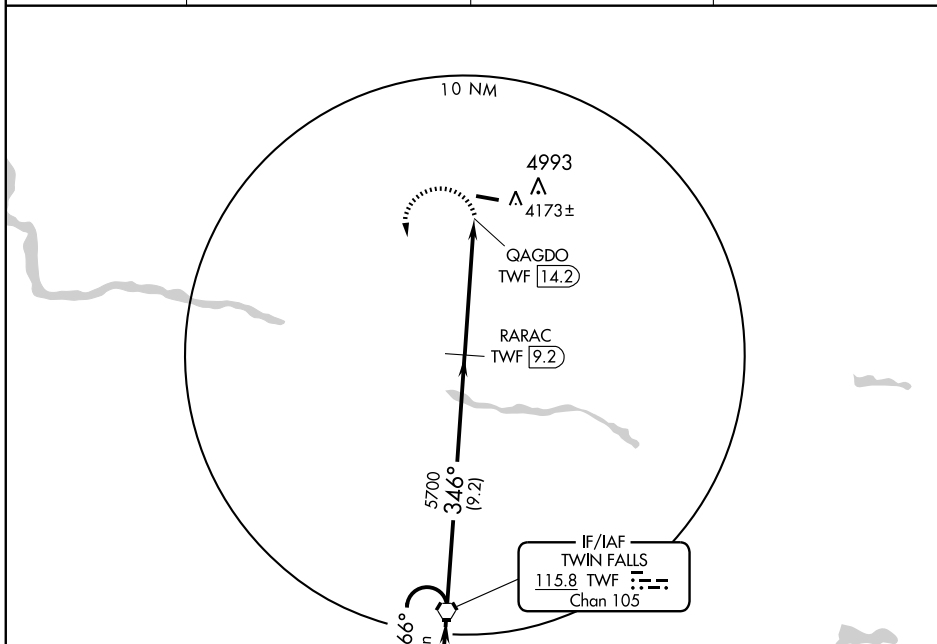
VORTAC TWF 115.8 Chan 105	APP CRS 346°	Rwy Idg TDZE Apt Elev N/A N/A 4053
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VOR/DME-A
JEROME COUNTY (JER)

⚠ Circling NA north of Rwy 9-27. When local altimeter setting not received, use Twin Falls altimeter setting and increase all MDA 60 feet.

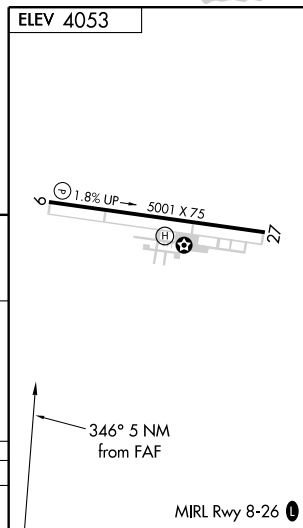
MISSED APPROACH: Climbing left turn to 8000 direct TWF VORTAC and hold, continue climb-in-hold to 8000.

ASOS 135.225	TWIN FALLS APP CON ★ 126.7 353.75	SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) ①
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NoPT for arrival on TWF VORTAC via V142 westbound and V269 southwest bound and V293 northbound.

One Minute Holding Pattern	VORTAC			
CATEGORY	A	B	C	D
CIRCLING	4580-1	527 (600-1)	4580-1½ 527 (600-1½)	4620-2 567 (600-2)



MIRL Rwy 8-26 **①**

AIRPORT DIAGRAM

AL-515 (FAA)

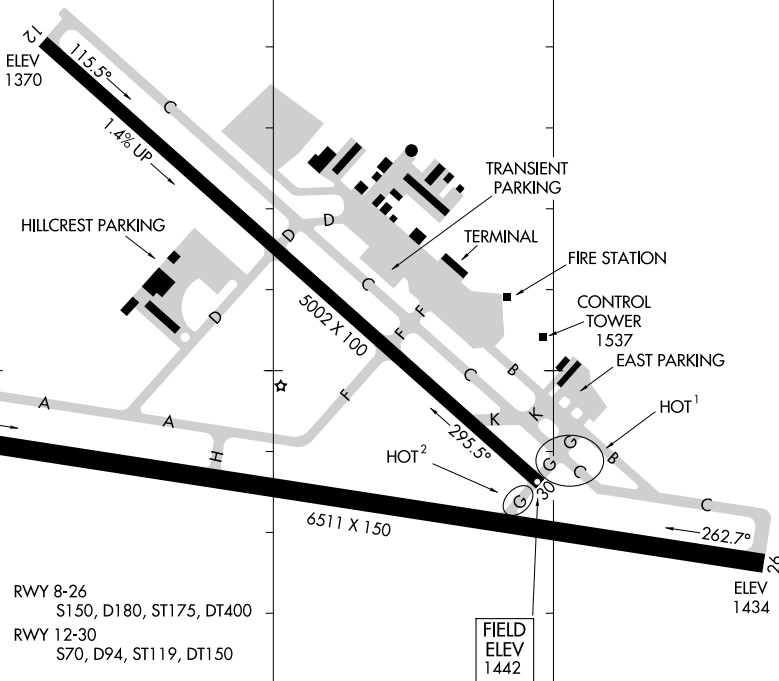
LEWISTON-NEZ PERCE COUNTY (LWS)

LEWISTON, IDAHO

ASOS
135.575
LEWISTON TOWER★
119.4 318.8
GND CON
121.9

JANUARY 2005
ANNUAL RATE OF CHANGE
0.2° W

46°23'N



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

117° 01.5'W

117° 01.0'W

117° 00.5'W

NW-1. 14 JAN 2010 to 11 FEB 2010

⚠ When local altimeter setting not received, procedure NA.

⚠ Autopilot coupled approach NA below 2500.

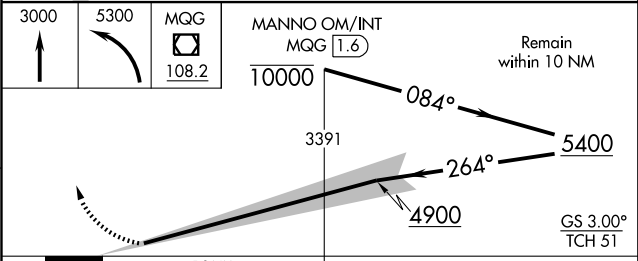
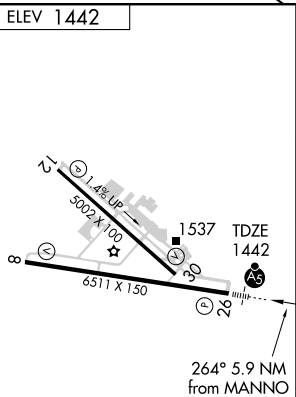
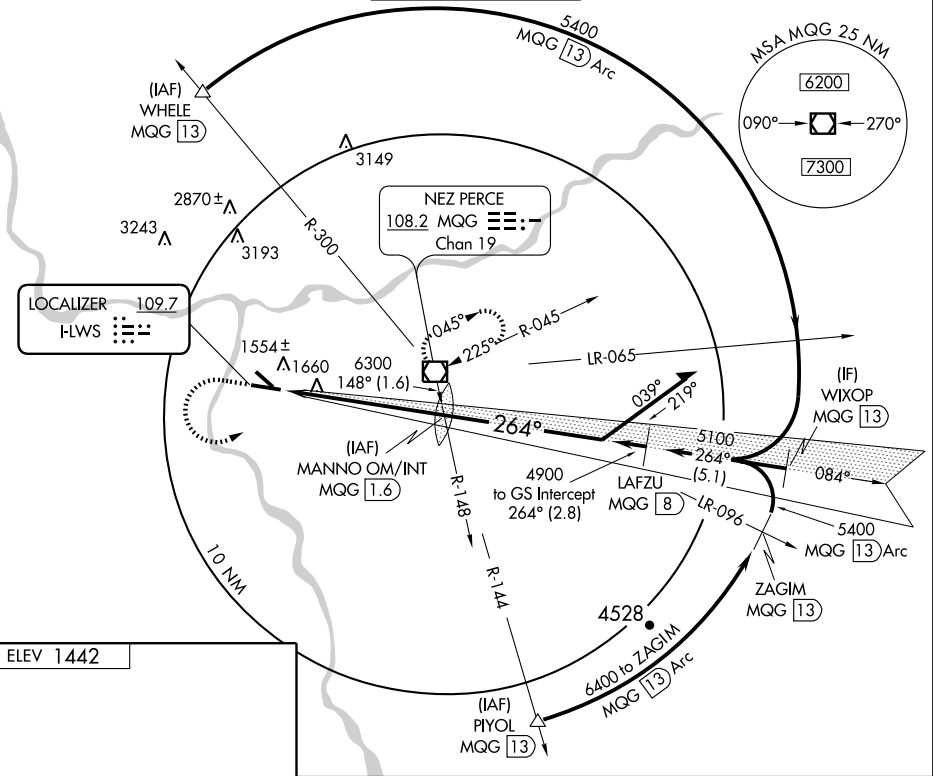
Circling requires descent on GS to CMDA.

MALSR

A5

MISSED APPROACH: Climb to 3000 then climbing left turn to 5300 direct MQG VOR/DME and hold, continue climb-in-hold to 5300.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER★ 119.4 (CTAF) 318.8	GND CON 121.9	UNICOM 122.95
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REIL Rwy 8 and 12
HIRL Rwy 8-26
MIRL Rwy 12-30

CATEGORY	A	B	C	D
S-ILS 26	1642-1/2 200 (200-1/2)			
CIRCLING	1900-1 458 (500-1)	1920-1 478 (500-1)	1960-1 1/2 518 (600-1 1/2)	2160-2 1/4 718 (800-2 1/4)

NW-1, 14 JAN 2010 to 11 FEB 2010

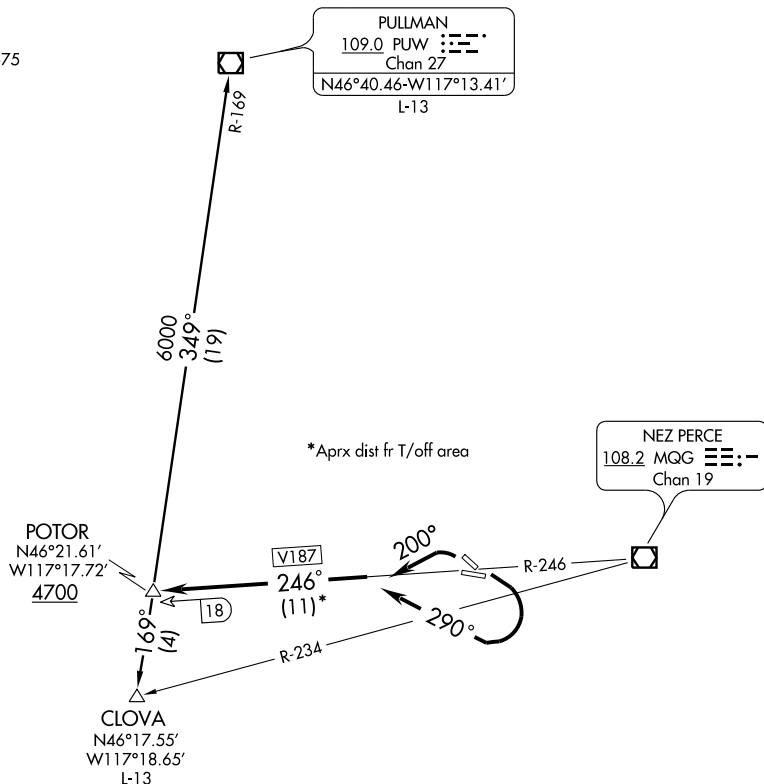
POTOR TWO DEPARTURE

LEWISTON-NEZ PERCE COUNTY (LWS)

SL-515 (FAA)

LEWISTON, IDAHO

GND CON
121.9
CTAF 119.4
ASOS 135.575



NOTE: Departure may be restricted to cross POTOR INT at 5000.

NOTE: Minimum climb required- Rws 26 and 29-300'/NM to 4700' (750 FPM/150K IAS 1000 FPM/200K IAS).
Rws 8 and 11-270'/NM to 4700' (675 FPM/150K IAS, 900 FPM/200K IAS) or 4600' ceiling and three miles visibility.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8, 11: Turn right heading 290°. Thence....

TAKE-OFF RUNWAYS 26, 29: Turn left heading 200°. Thence....

....Intercept and proceed via MQG R-246 (V187) to POTOR INT. Thence via (assigned route) or (transition).

CLOVA TRANSITION (POTOR2.CLOVA): From over POTOR INT via PUW R-169 to CLOVA INT.

PULLMAN TRANSITION (POTOR2.PUW): From over POTOR INT via PUW R-169 to PUW VOR/DME.

WAAS CH 56500 W12A	APP CRS 117°	Rwy Idg 5002 TDZE 1415 Apt Elev 1442
--	------------------------	---

RNAV (GPS) RWY 12

LEWISTON-NEZ PERCE COUNTY (LWS)

T	Circling requires descent on glidepath to CMDA. DME/DME RNP-0.3 NA.
A	Visibility reduction by helicopters NA. When local altimeter setting not received, procedure NA.

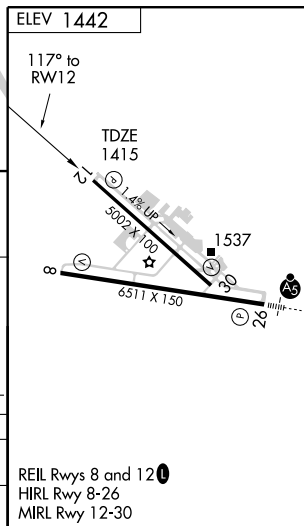
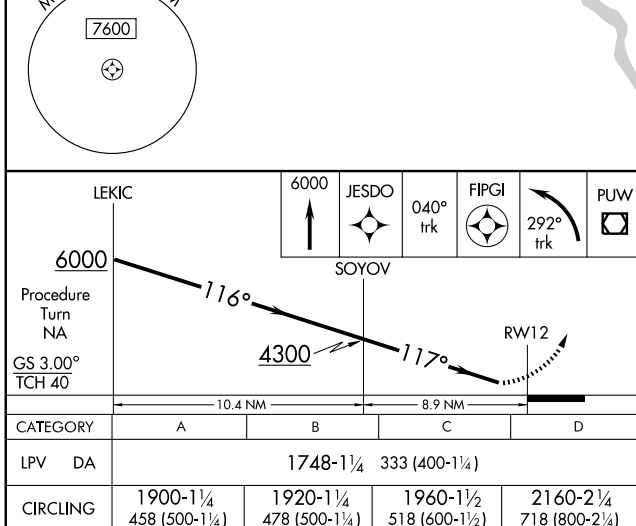
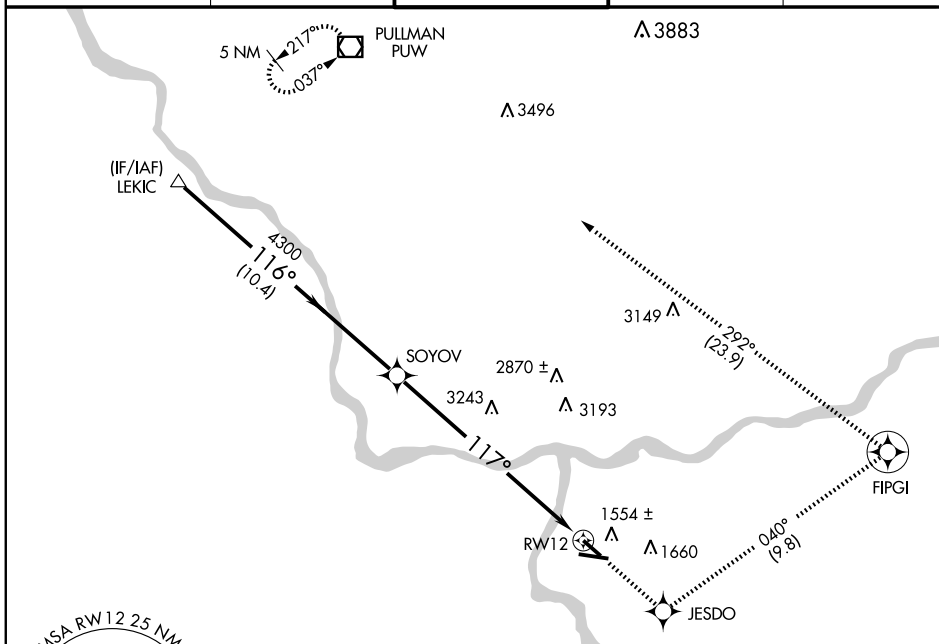
MISSED APPROACH: Climb to 6000 direct JESDO and via 040° track to FIPGI, and left turn via 292° track to PUW VOR/DME and hold.

ASOS
135.575

SEATTLE CENTER
123.95 282.3

LEWISTON TOWER ★
119.4 (CTAF) 318.8

GND CON
121.9

UNICOM
122.95

When local altimeter setting not received, procedure NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 47°C (116°F). DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 7000 direct GIYES and via 246° track to SEVER and hold, continue climb-in-hold to 7000.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER★ 119.4 (CTAF) 318.8	GND CON 121.9	UNICOM 122.95
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ELEV 1442

7000	GIYES	trk 246°	SEVER
*LNAV only			
*1.4 NM to RW26		GAGGO 4.9 NM to RW26	
RW26		JANIG	
1.4 NM		3.5 NM	
3.5 NM		4.9 NM	
4.9 NM		2.8 NM	
2.8 NM		3.2 NM	
3.2 NM		5100	
5100		264°	
264°		084°	
084°		5600	
5600		5 NM Holding Pattern	
5 NM Holding Pattern		GS 3.00° TCH 51	

CATEGORY	A	B	C	D
LPV DA	1642-1½	200 (200-½)		
LNAV/VNAV DA	1962-1¼	520 (600-1¼)		
LNAV MDA	1920-1½	478 (500-½)	1920-¾ 478 (500-¾)	1920-1 478 (500-1)
CIRCLING	1920-1	478 (500-1)	1960-1½ 518 (600-1½)	2160-2¼ 718 (800-2¼)

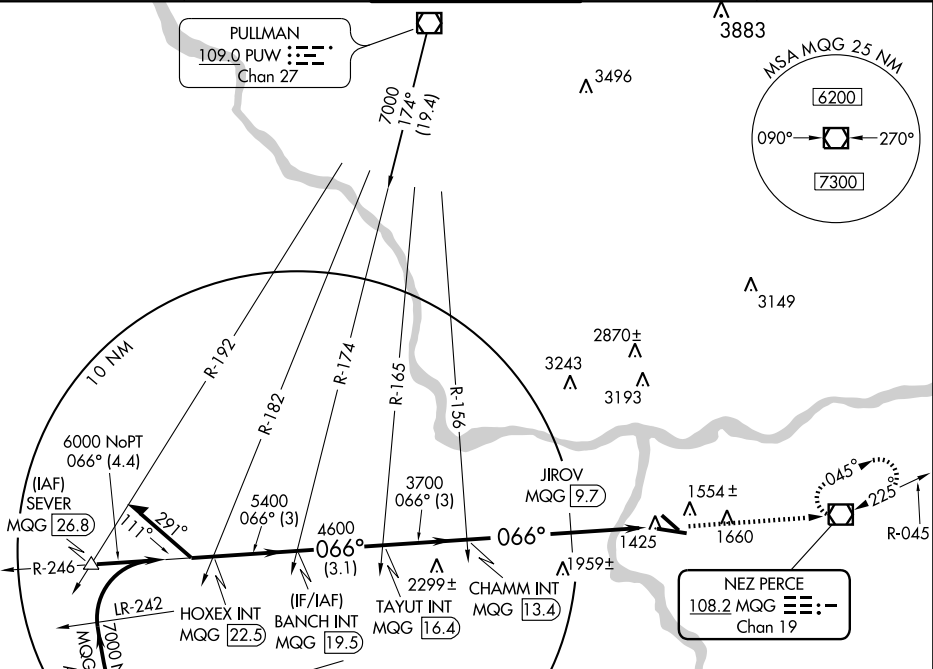
REIL Rwy 8 and 12
HIRL Rwy 8-26
MIRL Rwy 12-30

NW-1. 14 JAN 2010 to 11 FEB 2010

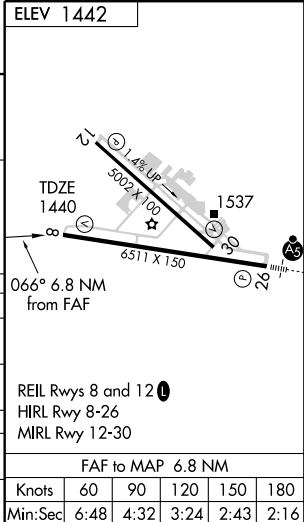
VOR/DME MQG	APP CRS	Rwy Idg	6511
108.2	066°	TDZE	1440
Chan 19		Apt Elev	1442

MISSED APPROACH: Climb to 5000 direct MQG VOR/DME and hold, continue climb-in-hold to 5000.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER ★ 119.4 (CTAF) 318.8	GND CON 121.9	UNICOM 122.95
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HOXEX INT MQG [22.5] BANCH INT MQG [19.5] TAYUT INT MQG [16.4] CHAMM INT MQG [13.4] JIROV MQG [9.7] MQG [108.2]				
6800 6000 5400 4600 3700 2480				
Remain within 10 NM				
3 NM 3.1 NM 3 NM 3.7 NM 0.7 2.4 NM				
CATEGORY	A	B	C	D
S-8	2480-1¼ 1040 (1100-1¼)	2480-1½ 1040 (1100-1½)	2480-3 1040 (1100-3)	
CIRCLING	2480-1¼ 1038 (1100-1¼)	2480-1½ 1038 (1100-1½)	2480-3 1038 (1100-3)	
JIROV FIX MINIMUMS				
S-8	2220-1 780 (800-1)	2220-1¼ 780 (800-1¼)	2220-2¼ 780 (800-2¼)	2220-2½ 780 (800-2½)
CIRCLING	2220-1 778 (800-1)	2220-1¼ 778 (800-1¼)	2220-2¼ 778 (800-2¼)	2220-2½ 778 (800-2½)



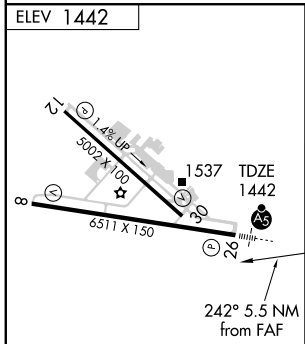
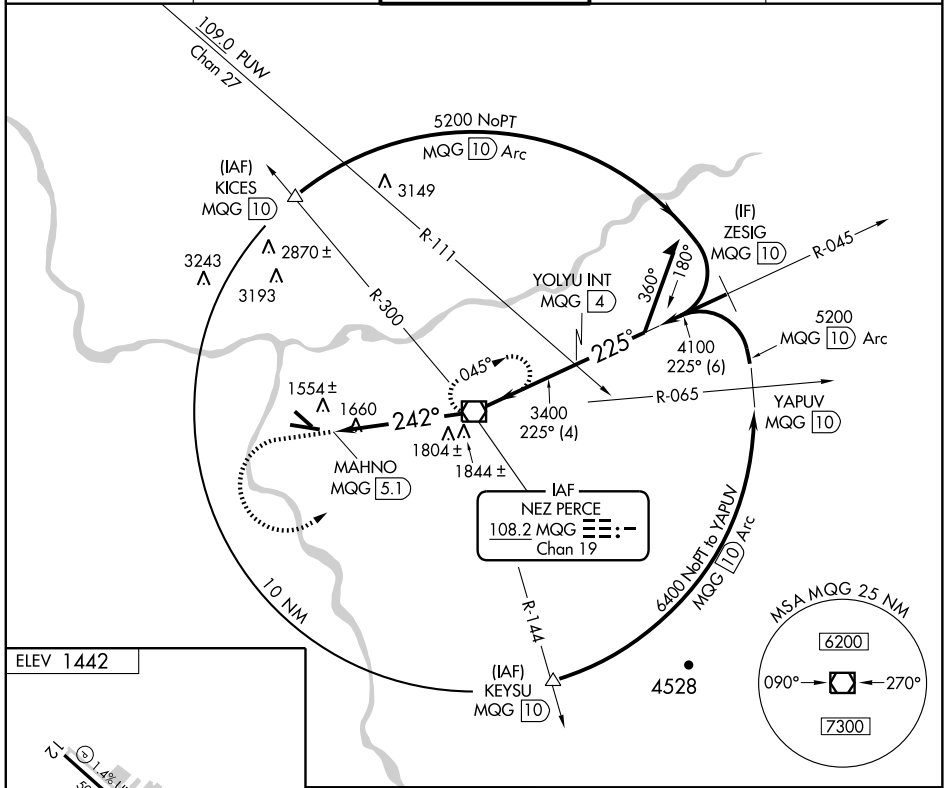
NW-1, 14 JAN 2010 to 11 FEB 2010

VOR/DME MQG <u>108.2</u> Chan 19	APP CRS 242°	Rwy Idg 6511 TDZE 1442 Apt Elev 1442
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VOR RWY 26
LEWISTON-NEZ PERCE COUNTY (LWS)

T Inoperative table does not apply to S-26 Cats C and D. A When local altimeter setting not received, procedure NA.	MALSR	MISSED APPROACH: Climb to 2600 then climbing left turn to 5000 direct MQG VOR/DME and hold, continue climb-in-hold to 5000.
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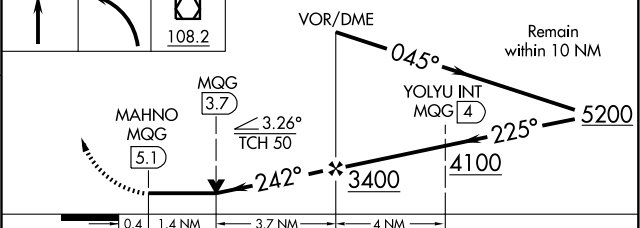
ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER* 119.4 (CTAF) 318.8	GND CON 121.9	UNICOM 122.95
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REIL Rwy 8 and 12 **L**
HIRL Rwy 8-26
MIRL Rwy 12-30

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

2600	5000	MQG	VGSI and descent angles not coincident.
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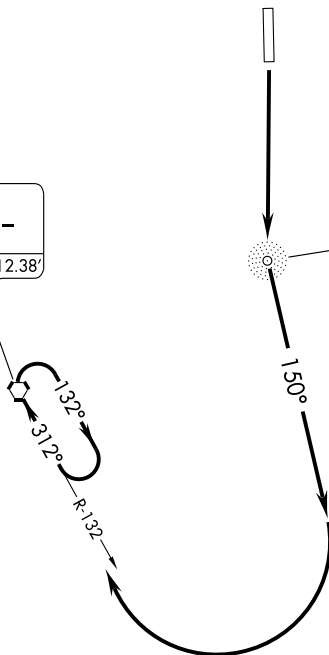


CATEGORY	A	B	C	D
S-26	2060-½ 618 (700-½)		2060-1¾ 618 (700-1¾)	2060-2 618 (700-2)
CIRCLING	2060-1 618 (700-1)		2060-1¾ 618 (700-1¾)	2160-2¼ 718 (800-2¼)

ASOS 119.925
BOISE RADIO
122.35
SALT LAKE CENTER
128.05 387.15

DONNELLY
116.2 DNJ 
Chan 109
N44°46.03'-W116°12.38'
L-13, H-1

MC CALL
363 IOM 
N44°48.34'-W116°06.14'



TAKE-OFF OBSTACLE NOTES

Rwy 16: Trees beginning 291' from DER, 550' left of centerline, up to 101' AGL/5180' MSL.
Pole 3083' from DER, 1271' right of centerline, 34' AGL/5113' MSL.
Pole 4218' from DER, 521' left of centerline, 29' AGL/5128' MSL.
Shrub 63' from DER, 289' left of centerline, 7' AGL/5013' MSL.
Bldg 1066' from DER, 524' right of centerline, 36' AGL/5035' MSL.
Terrain beginning 1832' from DER, 445' left of centerline, up to 5079' MSL.
Terrain beginning 1236' from DER, 159' right of centerline, up to 5097' MSL.

TAKE-OFF MINIMUMS

Rwy 16: 200-1 or standard with minimum climb of 362' per NM to 5300.
Rwy 34: NA - Obstacles.

NOTE: ADF Required

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 9600 direct IOM NDB and via IOM NDB 150° bearing then climbing right turn to 10400 direct DNJ VORTAC, continue climb-in-hold to 10400 before proceeding on course.

NDB IOM
363

APP CR
343°

Rwy Idg	6108
TDZE	5008
Apt Elev	5020

NDB RWY 34
MC CALL MUNI (MYL)



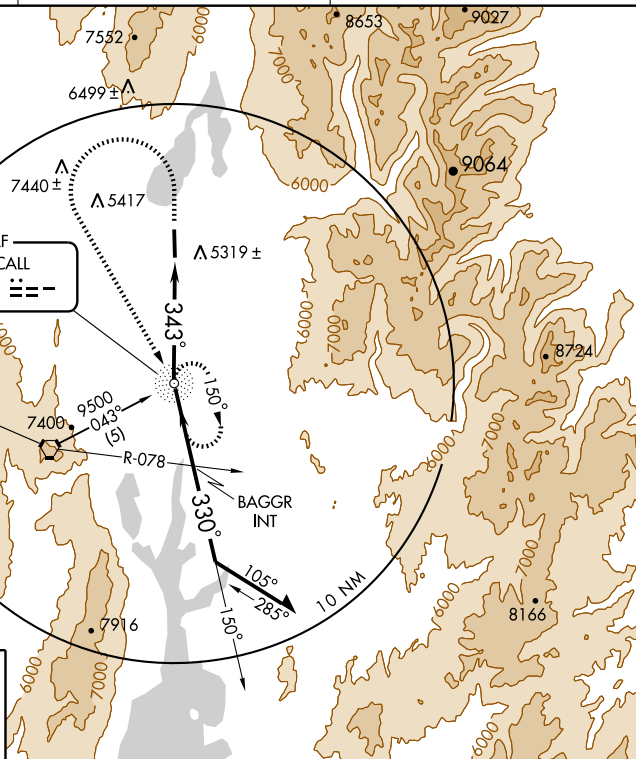
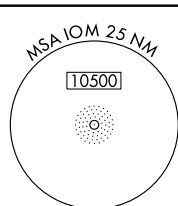
If local altimeter not received, procedure NA.

MISSED APPROACH: Climb to 6300, then climbing left turn via IOM NDB 313° bearing to IOM NDB, continue climb via IOM NDB 133° bearing to 9500, then turn right direct IOM NDB and hold.

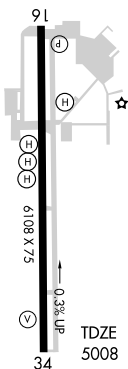
ASOS
119.925

SALT LAKE CENTER
128.05 387.15

UNICOM
122.8 (CTAF)



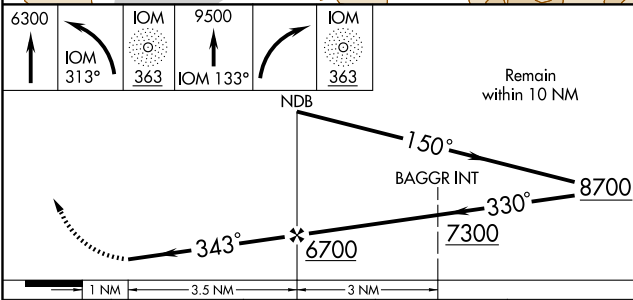
ELEV 5020



REIL Rwy 34
MIRL Rwy 16-34

FAF to MAP 3.5 NM

Knots	60	90	120	150	180
Min:Sec	3:30	2:20	1:45	1:24	1:10



CATEGORY	A	B	C	D
S-34	5800-1¼	792 (800-1¼)	5800-2¼ 792 (800-2¼)	5800-2½ 792 (800-2½)
CIRCLING	5800-1¼	780 (800-1¼)	5840-2½ 820 (900-2½)	6000-2 980 (1000-3)

LOC FMUO 110.3	APCH CRS 117°	Rwy Idg 13,500 TDZE 2986 Aprot Elev 2996	JAL-323 [USAF]	MOUNTAIN HOME AFB (KMUO)
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T * When ALS inop, increase CAT CDE RVR to 40 and vis to ¾ mile.

**** When ALS inop, increase CAT C RVR to 60 and vis to 1 ¼ miles, CAT D vis to 1 ½ miles, CAT E vis to 1 ¾ miles.**

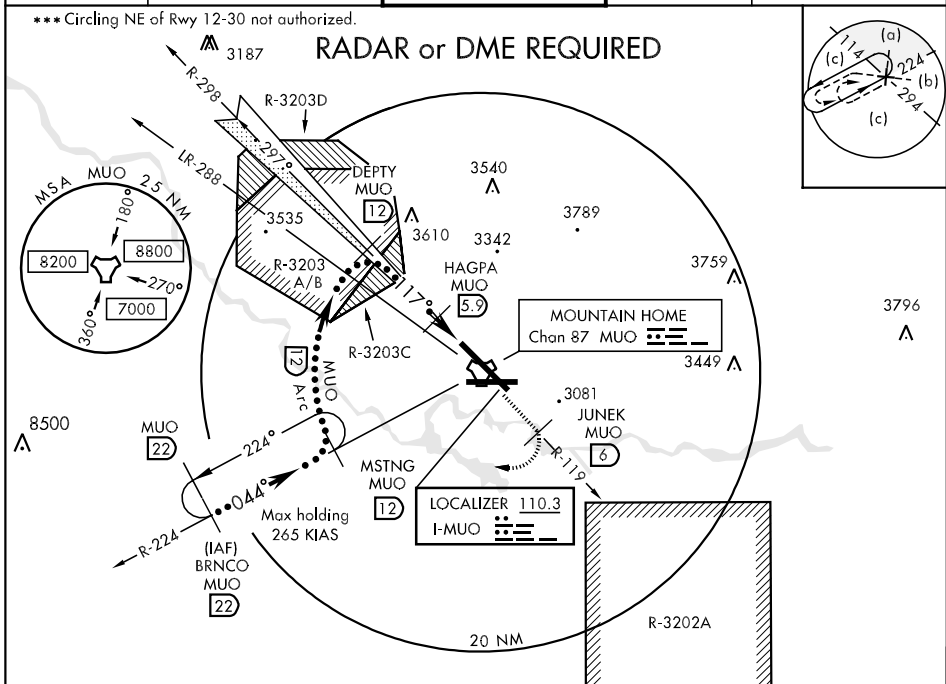


MISSED APPROACH: Climb to 9000 via MUQ R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

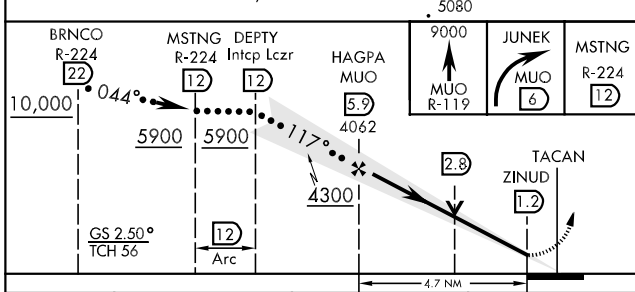
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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*** Circling NE of Rwy 12-30 not authorized.

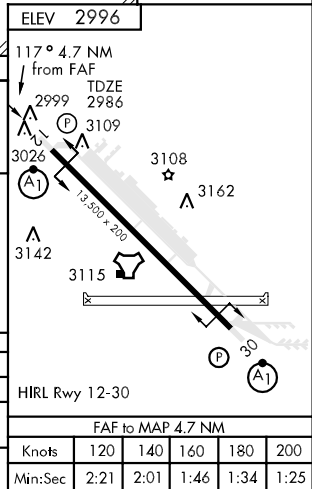
RADAR or DME REQUIRED



EMERG SAFE ALT 100 NM 14,200



CATEGORY	C	D	E
S-11S 12 *	3186/24	200 (200-1/2)	
S-LOC 12 **	3480/40 494 (500-3/4)	3480/50 494 (500-1)	3480/60 494 (500-1 1/4)
CIRCLING ***	3520-1 1/2 524 (600-1 1/2)	3560-2	564 (600-2)



LOC F-BRN 111.7	APCH CRS 297°	Rwy Idg 13,500 TDZE 2996 Arot Elev 2996	JAL-323 [USAF]	MOUNTAIN HOME AFB (KMUO)
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T * When ALS inop., increase CAT CDE RVR to 40 and vis to $\frac{3}{4}$ mile.

ALSF-1

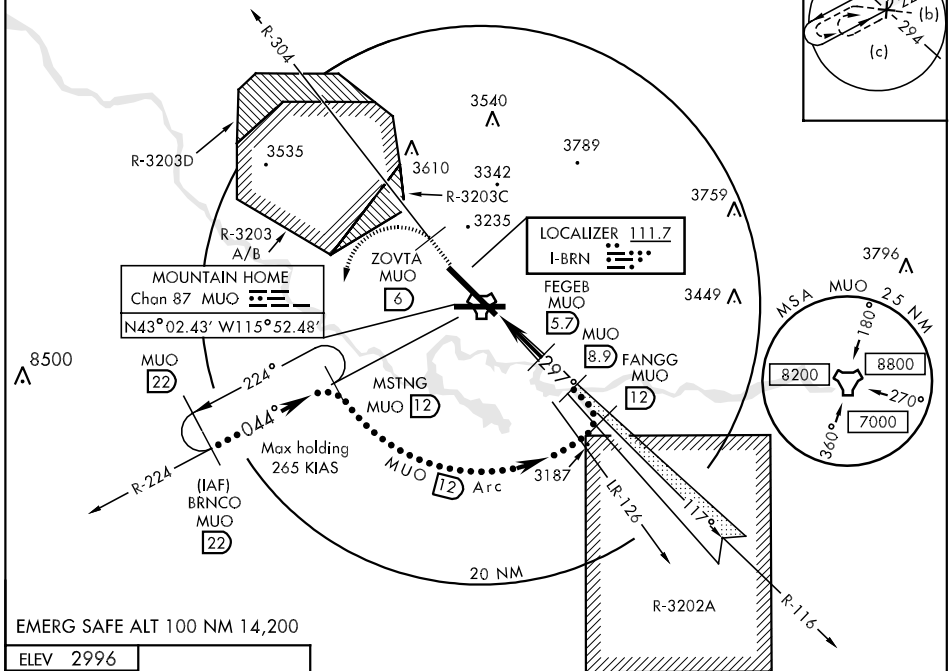
MISSED APPROACH: Climb to 9000 via MUO R-304 to ZOVRTA INT/6 DME, turn left direct MSTNG and hold.

ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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* * * Circling NE of Rwy 12-30 not authorized.

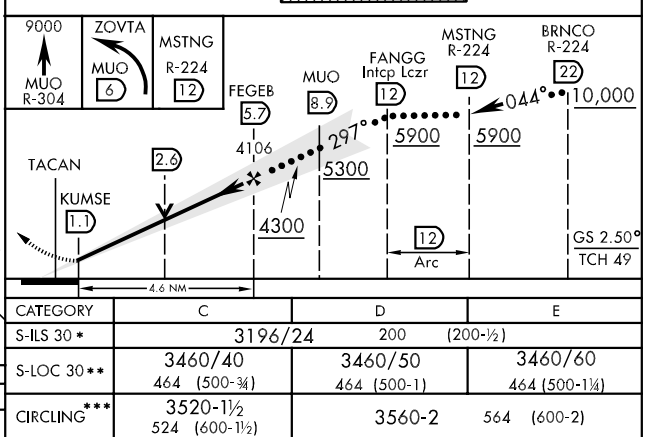
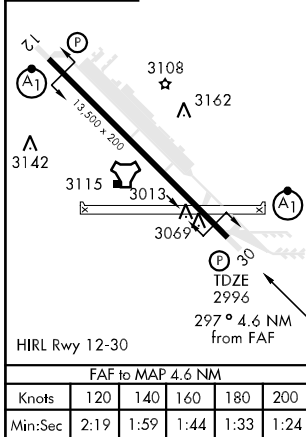
3187

RADAR or DME REQUIRED



EMERG SAFE ALT 100 NM 14,200

ELEV 2996



MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

Orig 08101

14 JUN 1964 00

TACAN MUO Chan 87	APCH CRS 124°	Rwy Idg 13,500 TDZE 2986 Arpt Elev 2996
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JAL-323 [USAF]

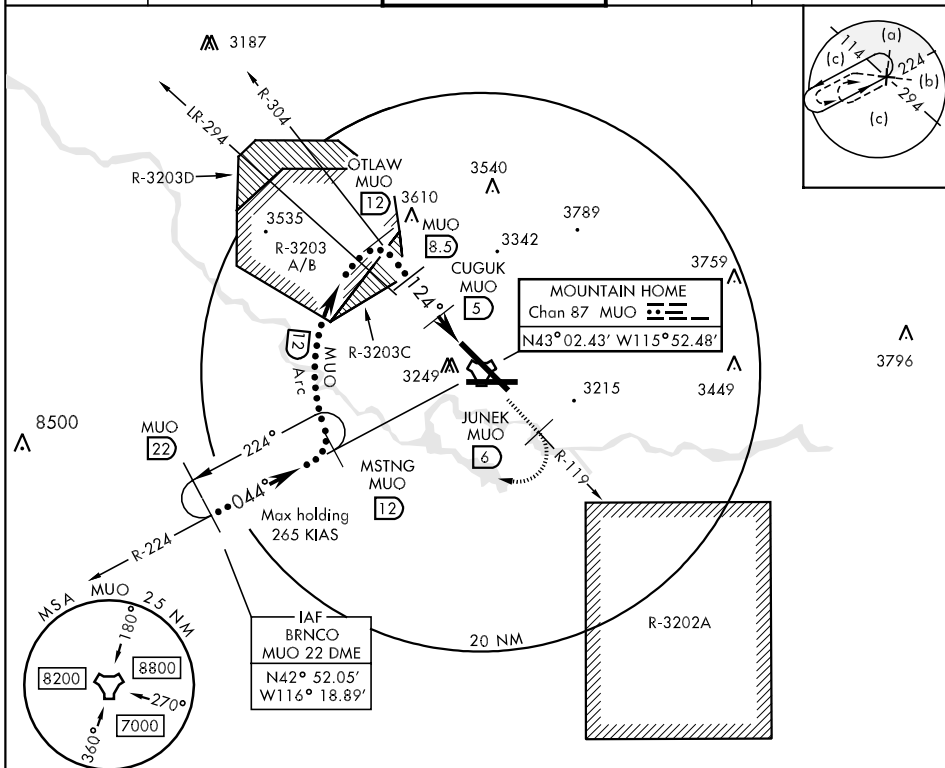
MOUNTAIN HOME AFB (KMUO)

T * When ALS inop, increase CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.
** Circling NE of Rwy 12-30 not authorized.

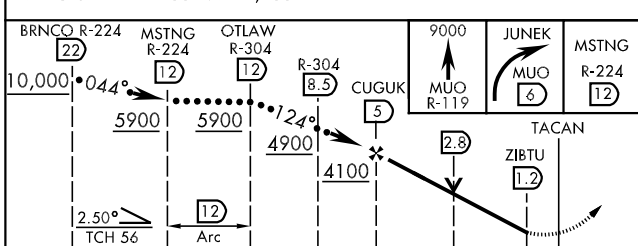


MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

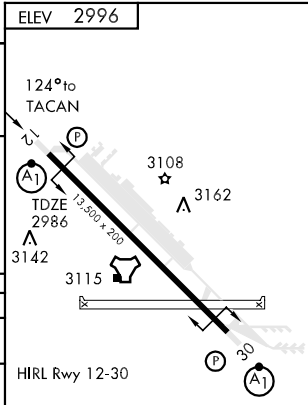
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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EMERG SAFE ALT 100 NM 14,200



CATEGORY	C	D	E
S-12 *	3480/40 494 (500-¾)	3480/50 494 (500-1)	3480/60 494 (500-1½)
CIRCLING **	3520-1½ 524 (600-1½)	3560-2	564 (600-2)



MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

NW-1, 14 JAN 2010 to 11 FEB 2010

Orig 08101

ULTAGANLBYM10

TACAN MUO Chan 87	APCH CRS 290°	Rwy Idg 13,500 TDZE 2996 Arpt Elev 2996
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JAL-323 [USAF]

MOUNTAIN HOME AFB (KMUO)

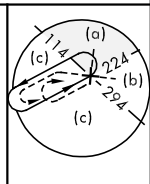
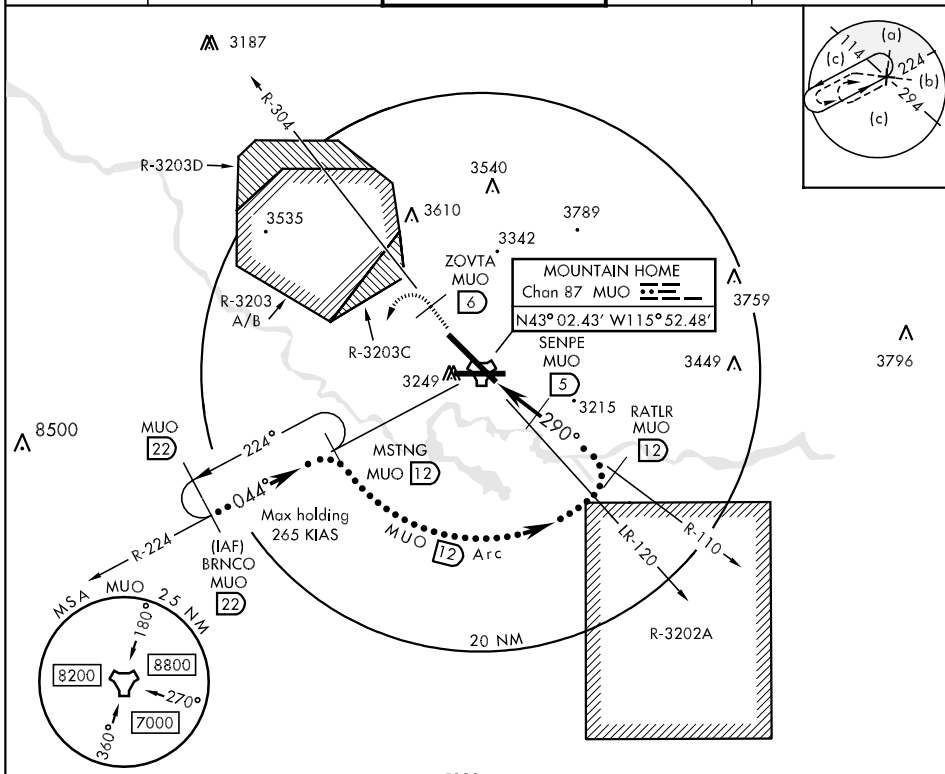
✦ * When ALS inop, increase CAT C RVR to 60 and vis to 1½ miles,
CAT D vis to 1½ miles, CAT E vis to 1¾ miles.

** Circling NE of Rwy 12-30 not authorized.



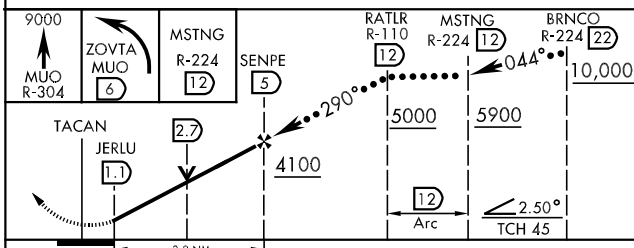
MISSED APPROACH: Climb to 9000 via MUO R-304 to ZOVRTA INT/6 DME, turn left direct MSTNG and hold.

ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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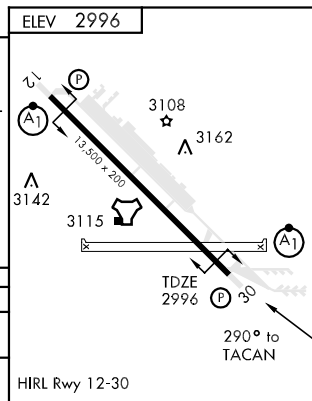


EMERG SAFE ALT 100 NM 14,200

5080



CATEGORY	C	D	E
S-30 *	3480/40 484 (500-¾)	3480/50 484 (500-1)	3480/60 484 (500-1¼)
CIRCLING **	3520-1½ 524 (600-1½)	3560-2 564 (600-2)	



MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

LOC I-MUO
110.3

117

Rwy Idg	13,500
TDZE	2986
Arpt Elev	2996

AL-323 [USAF]

MOUNTAIN HOME AFB (KMUO)

T * When ALS inop, increase RVR to 40, vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to $1\frac{1}{4}$ miles, CAT D vis to $1\frac{1}{2}$ miles, CAT E vis to $1\frac{3}{4}$ miles.

ALSF-1

A diagram of a single atom labeled A_1 . It consists of a central nucleus (a small black dot) and a single circular electron orbit around it.

MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

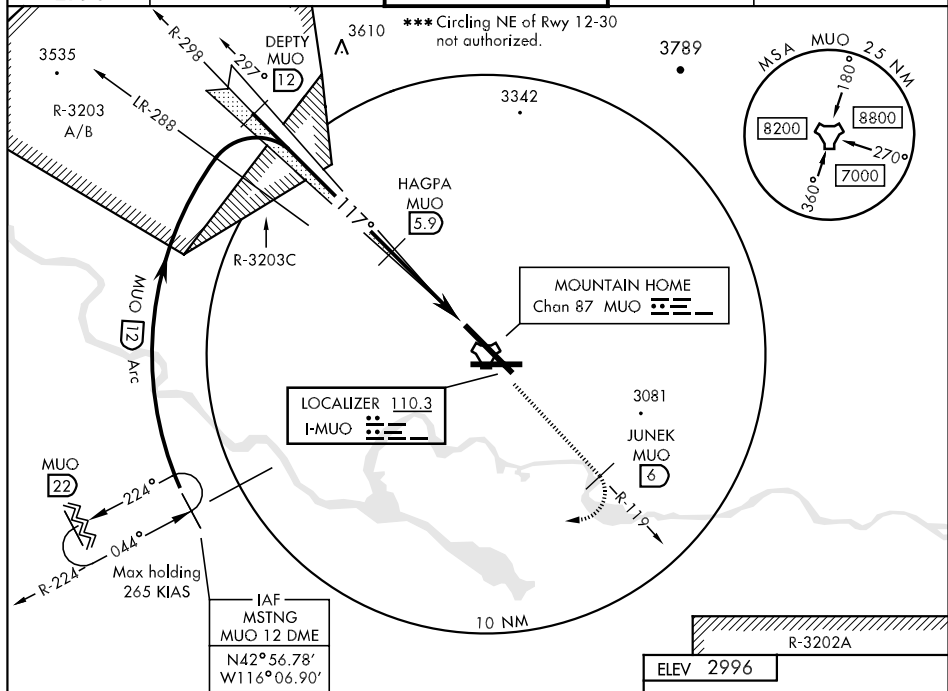
ATIS
273.5

MOUNTAIN HOME APP CON
124.8 259.1

MOUNTAIN HOME TOWER
133.85 253.5

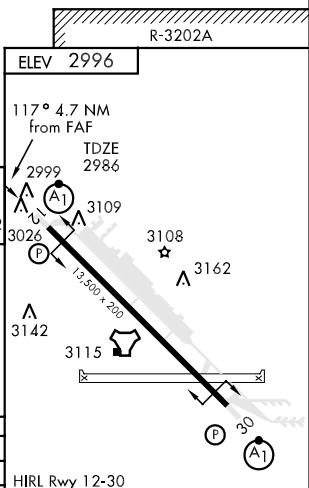
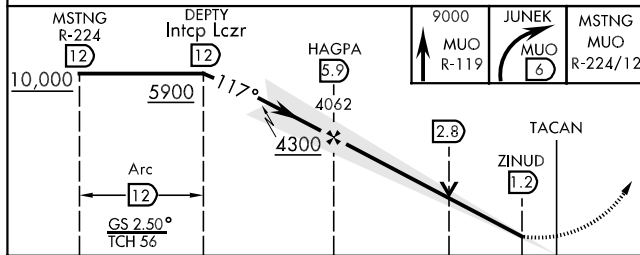
GND CON
120.5 275.8

CLNC DEL
127.1 290.425



RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 14,200



CATEGORY	A	B	C	D	E
S-ILS 12 *	3186/24 200 (200-½)				
S-LOC 12 **	3460/24	474 (500-½)	3460/40 474 (500-¾)	3460/50 474 (500-1)	3460/60 474 (500-1¼)
CIRCLING ***	3520-1	524 (600-1)	3520-1½ 524 (600-1½)	3560-2	564 (600-2)

FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

NW-1, 14 JAN 2010 to 11 FEB 2010

LOC I-BRN <u>111.7</u>	APCH CRS 297°	Rwy Idg 13,500 TDZE 2996 Arpt Elev 2996
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AL-323 [USAF]

MOUNTAIN HOME AFB (KMUO)

T * When ALS inop, increase CAT ABCDE RVR to 40, vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to $1\frac{1}{4}$ miles, CAT D vis to $1\frac{1}{2}$ miles, CAT E vis to $1\frac{3}{4}$ miles.

ALSF-1

MISSED APPROACH: Climb to 9000 via MUO R-304 to ZOYTA/6 DME, turn left direct MSTNG and hold.

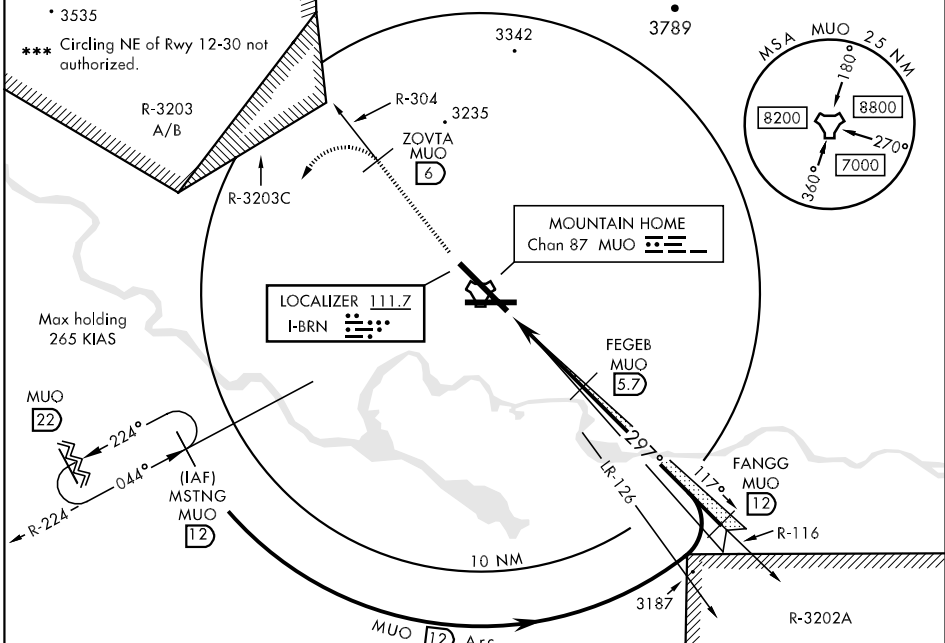
ATIS
273.5

MOUNTAIN HOME APP CON
124.8 259.1

MOUNTAIN HOME TOWER
133.85 253.5

GND CQN
120.5 275.8

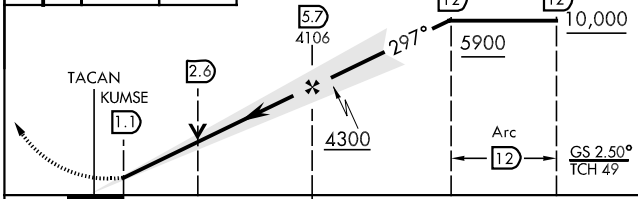
CLNC DEL
127.1 290.425



RADAR or DME REQUIRED

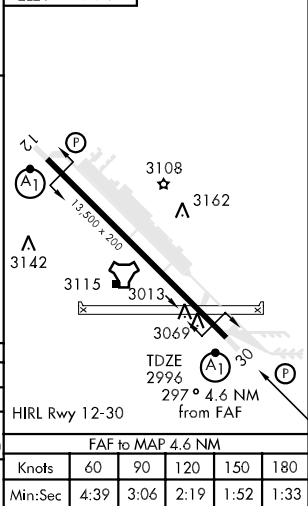
EMERG SAFE ALT 100 NM 14,200

9000 R-304 	 ZOVTA	MSTNG MUO R-224/12
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CATEGORY	A	B	C	D	E
S-ILS 30 *	3196/24 200 (200-½)				
S-LOC 30 **	3460/24 464 (500-½)	3460/40 464 (500-¾)	3460/50 464 (500-1)	3460/60 464 (500-1¼)	
CIRCLING ***	3520-1 524 (600-1)	3520-1½ 524 (600-1½)	3560-2 564 (600-2)		

ELEV 2996



MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

Orig 08101

U.S. DMM 20

NW-1, 14 JAN 2010 to 11 FEB 2010

TACAN MUO Chan 87	APCH CRS 124°	Rwy Idg 13,500 TDZE 2986 Arpt Elev 2996
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AL-323 [USAF]

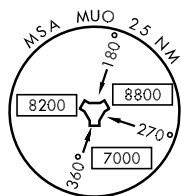
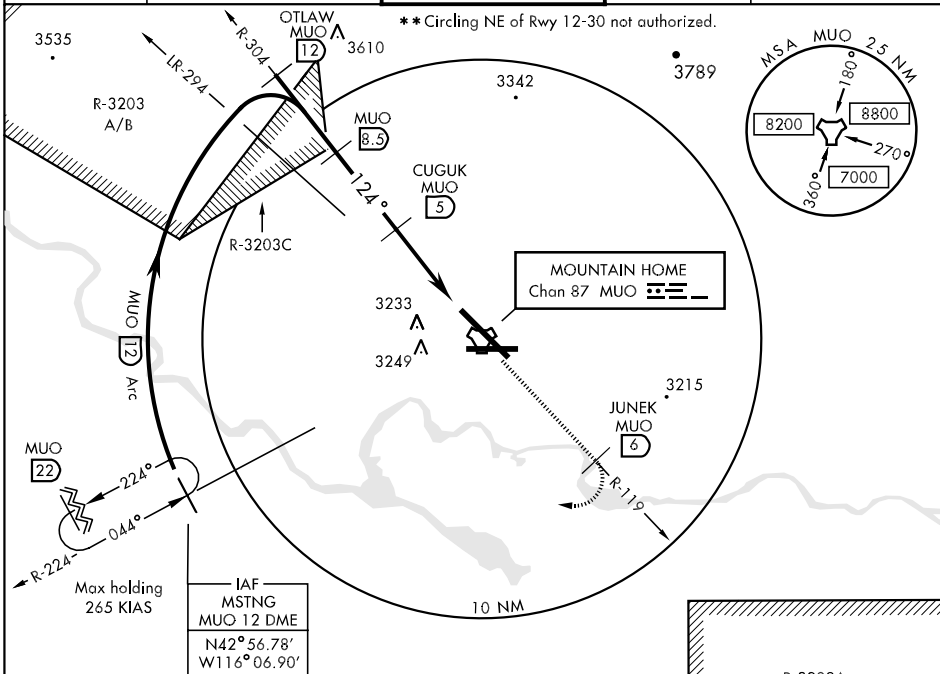
MOUNTAIN HOME AFB (KMUO)

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.

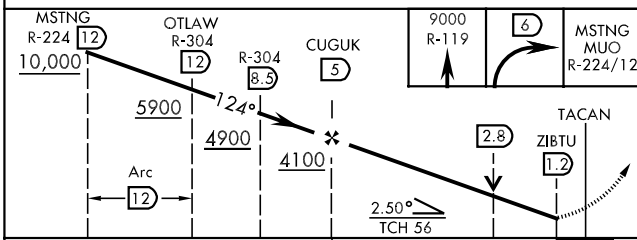


MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

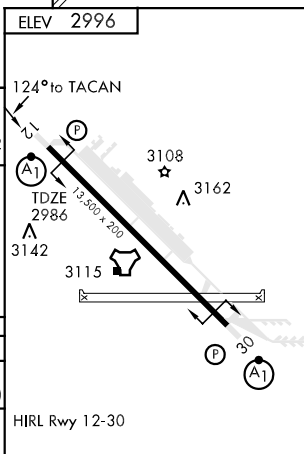
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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EMERG SAFE ALT 100 NM 14,200



CATEGORY	A	B	C	D	E
S-12 *	3480/40	494 (500-34)	3480/50 494 (500-1)	3480/60 494 (500-1¼)	
CIRCLING **	3520-1 524 (600-1)	3520-1½ 524 (600-1½)	3560-2 564 (600-2)		



TACAN MUO Chan 87	APCH CRS 290°	Rwy Idg 13,500 TDZE 2996 Arpt Elev 2996
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AL-323 [USAF]

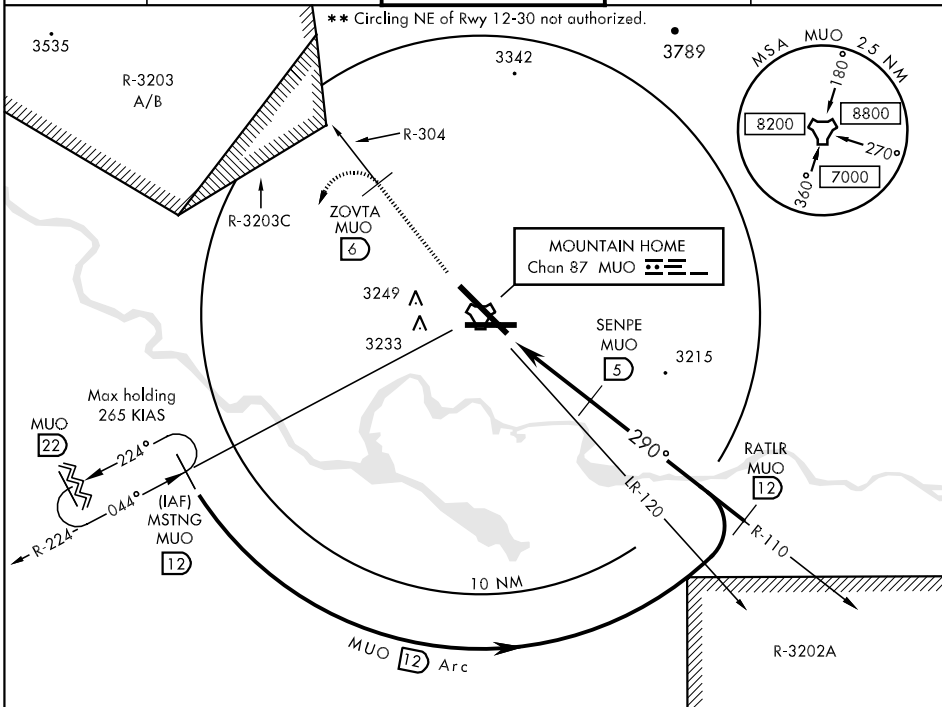
MOUNTAIN HOME AFB (KMUO)

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1½ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.

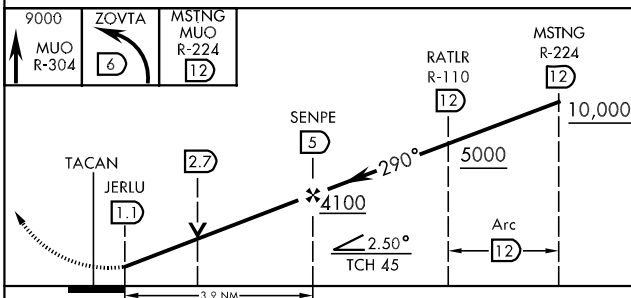


MISSED APPROACH: Climb to 9000 via MUO R-304 to ZOVRTA INT/6 DME, turn left direct MSTNG and hold.

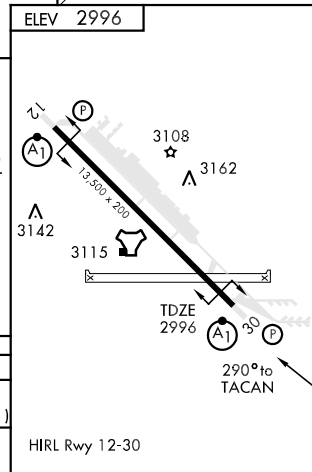
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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EMERG SAFE ALT 100 NM 14,200



CATEGORY	A	B	C	D	E
S-30 *	3480/24	484 (500-½)	3480/40 484 (500-¾)	3480/50 484 (500-1)	3480/60 484 (500-1½)
CIRCLING **	3520-1	524 (600-1)	3520-1½ 524 (600-1½)	3560-2	564 (600-2)



MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

NDB STI

333

APP CRS

271°

Rwy Idg
TDZE
Apt Elev

5000
3165
3167

NDB RWY 28

MOUNTAIN HOME MUNI (U76)

▼

▲ NA

Circling to Rwy 10 NA at night. Visibility reduction by helicopters NA. Use Mountain Home AFB altimeter setting; when not received, procedure NA.

MISSED APPROACH: Climb to 5000 then climbing left turn to 6000 direct STI NDB and hold.

AWOS-3 122.8	MOUNTAIN HOME APP CON ★ 124.8 259.1	UNICOM 122.8 (CTAF) 0
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ELEV 3167

5000

6000

STI 333

10000

NDB

091°

271°

6000

4300

3.50°

TCH 50

2.9 NM

Remain within 10 NM

VGSI and descent angles not coincident.

REIL Rwy 10 and 28 0

MIRL Rwy 10-28 0

FAC to MAP 2.9 NM

Knots	60	90	120	150	180
Min:Sec	2:54	1:56	1:27	1:10	0:58

NW-1. 14 JAN 2010 to 11 FEB 2010

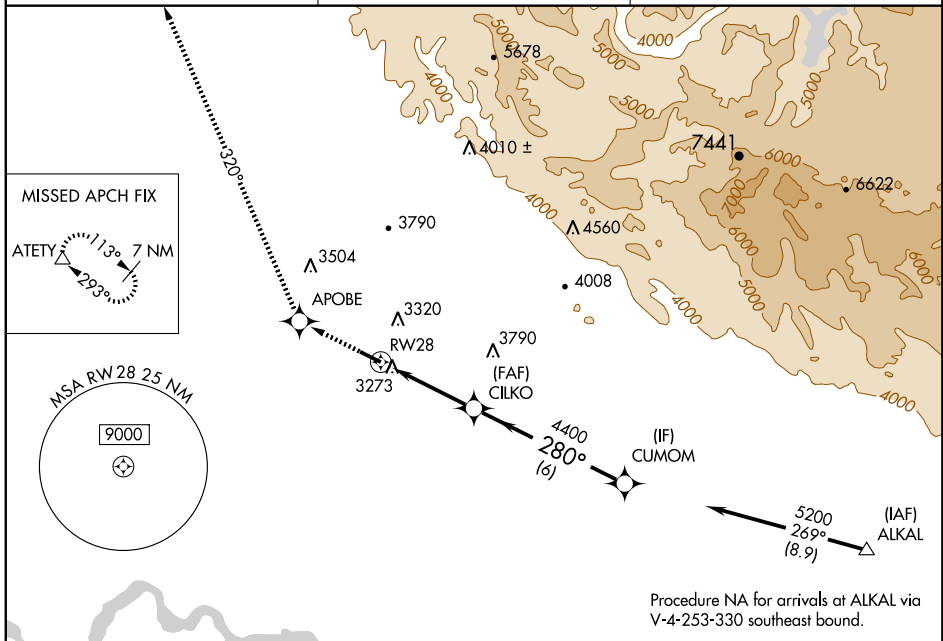
WAAS CH 42815 W28A	APP CRS 280°	Rwy Idg TDZE Apt Elev	5000 3165 3167
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RNAV (GPS) RWY 28

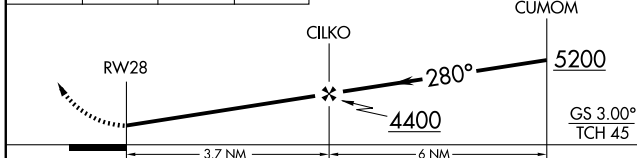
MOUNTAIN HOME MUNI (U76)

Circling to Rwy 10 NA at night. Baro-VNAV NA. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Mountain Home AFB altimeter setting, when not received procedure NA.	MISSED APPROACH: Climb to 7900 direct APOBE and via track 320° to ATETY and hold, continue climb-in-hold to 7900.
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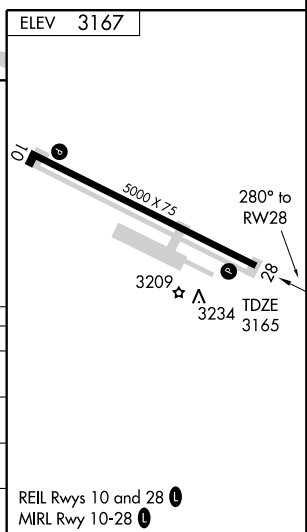
AWOS-3 122.8	MOUNTAIN HOME APP CON ★ 124.8 259.1	UNICOM 122.8 (CTAF) 0
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7900 ↑	APOBE ★	trk 320°	ATETY △	VGSI and RNAV glidepath not coincident.	Procedure Turn NA
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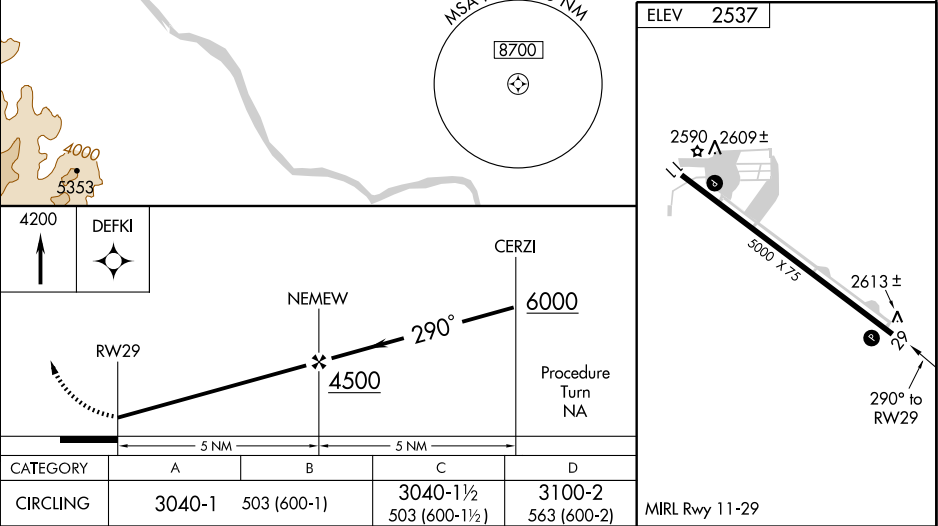
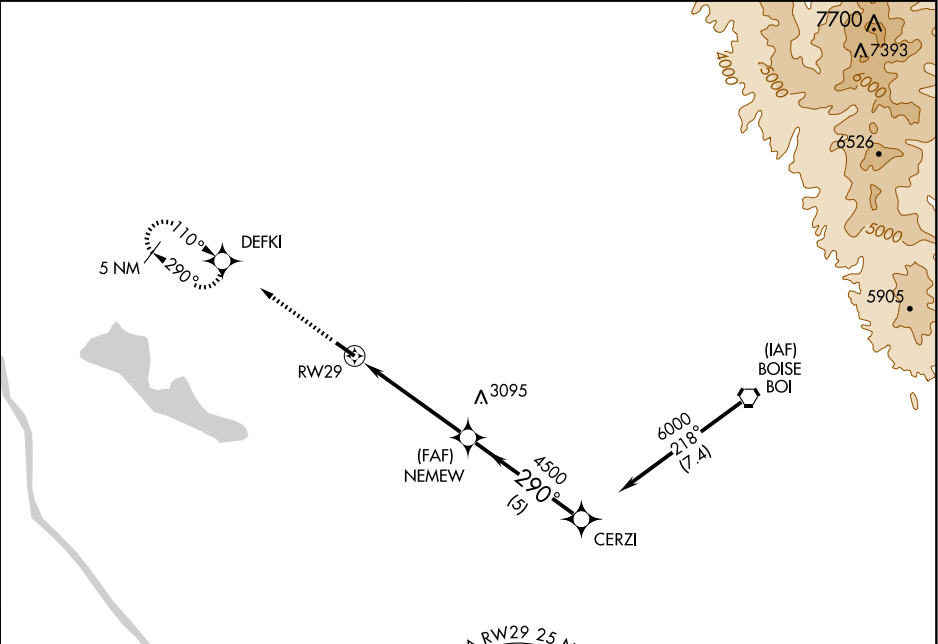


CATEGORY	A	B	C	D
LPV DA	3458-1 293 (300-1)			
LNAV/VNAV DA	3566-1½ 401 (400-1½)			
LNAV MDA	3580-1 415 (500-1)	3580-1¼ 415 (500-1¼)		
CIRCLING	3700-1 533 (600-1)	3720-1 553 (600-1)	3820-1¾ 653 (700-1¾)	3840-2¼ 673 (700-2¼)



APP CRS	Rwy Idg	N/A
290°	TDZE	N/A
	Apt Elev	2537

 NA Use Caldwell altimeter setting.	MISSED APPROACH: Climb to 4200 direct DEFKI WP and hold.
BOISE APP CON 119.6 269.4	UNICOM 122.7 (CTAF) 



▼

▲NA

Use Coldwell altimeter setting; if not received use Boise altimeter setting and increase all MDAs 80 feet.

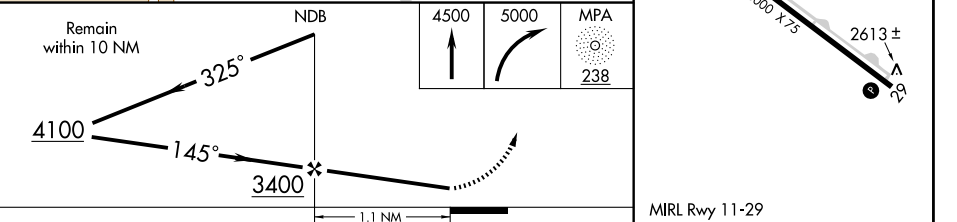
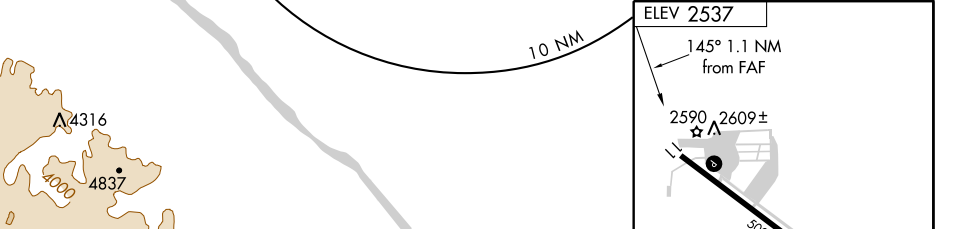
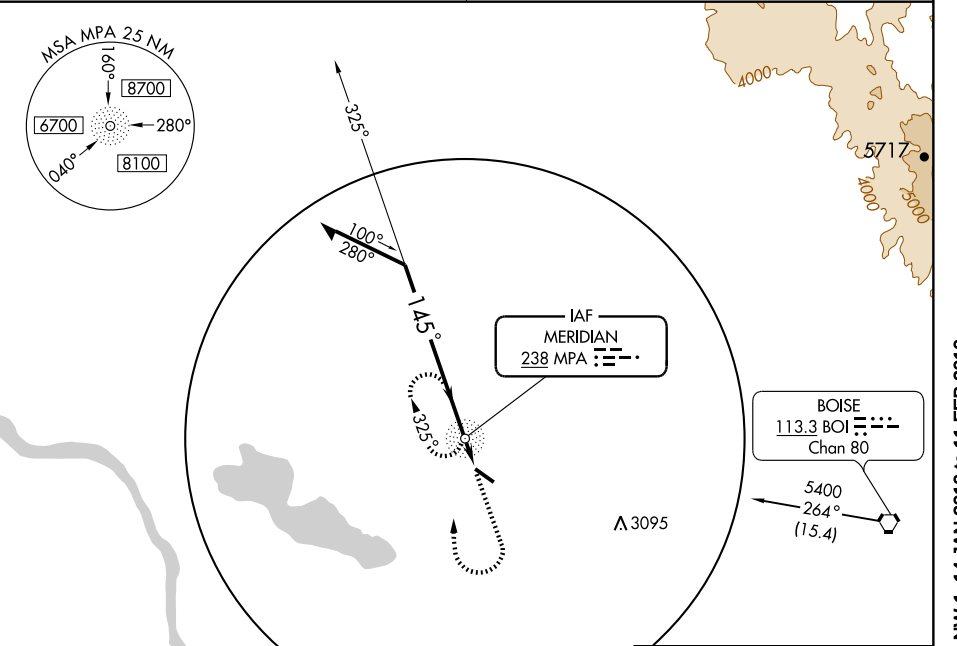
MISSED APPROACH: Climb to 4500 then climbing right turn to 5000 direct MPA NDB and hold.

BOISE APP CON

119.6 269.4

UNICOM

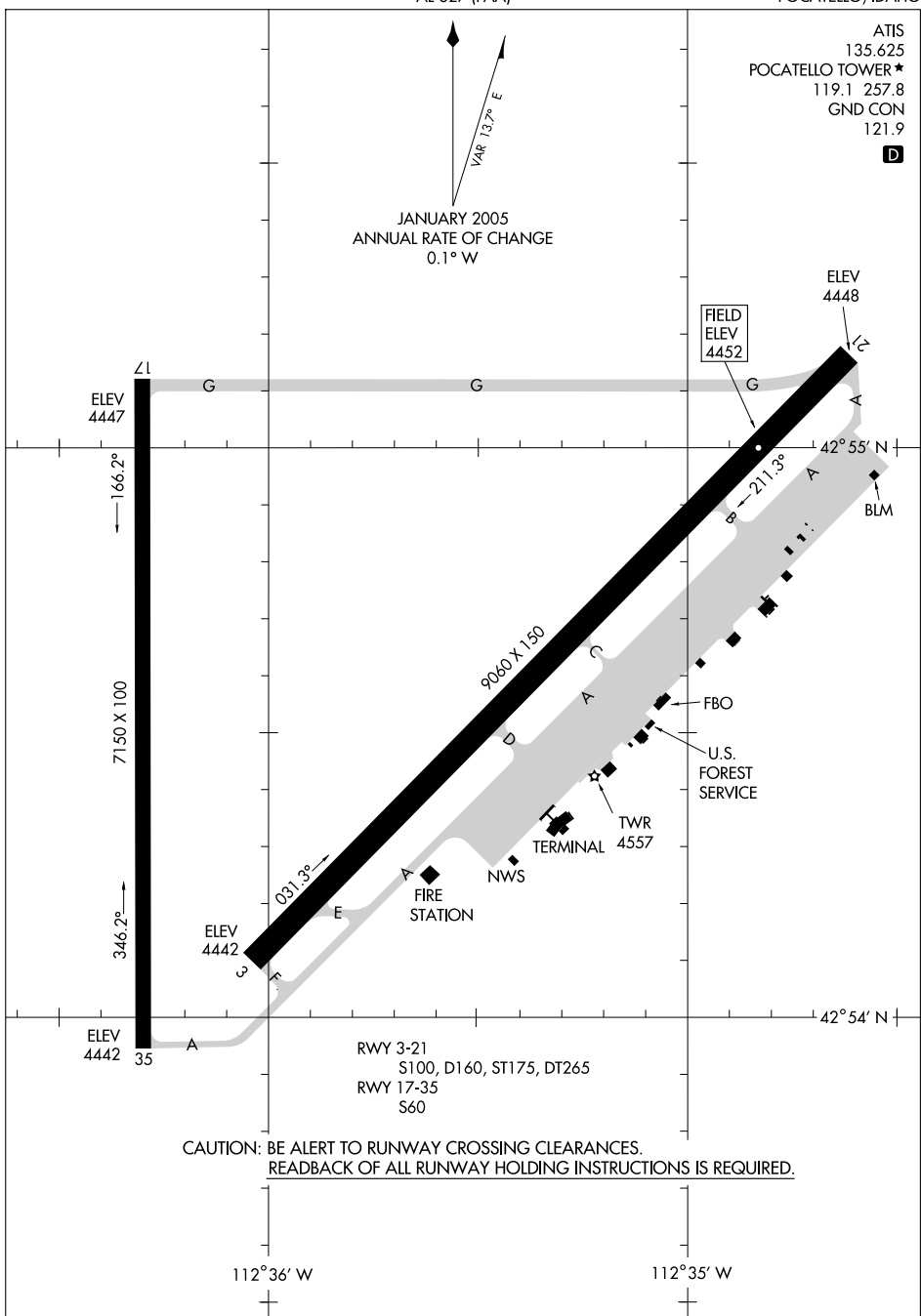
122.7 (CTAF) 0



CATEGORY	A	B	C	D	FAF to MAP 1.1 NM					
CIRCLING	3040-1	503 (600-1)	3040-1½ 503 (600-1½)	3100-2 563 (600-2)	Knots	60	90	120	150	180
					Min:Sec	1:06	0:44	0:33	0:26	0:22

AIRPORT DIAGRAM

POCATELLO RGNL (PIH)
POCATELLO, IDAHO



NW-1. 14 JAN 2010 to 11 FEB 2010

AL-327 (FAA)

ILS or LOC RWY 21
POCATELLO RGNL (PIH)

MALSR

MISSED APPROACH: Climb to 7400 direct PIH VORTAC, continue climb via PIH VORTAC R-269, then right turn direct PIH VORTAC and hold (TACAN aircraft continue via PIH VORTAC R-269 to SICOY/ PIH 10 DME and hold W, right turns. 089° inbound).

SALT LAKE CENTER
128.35 239.25

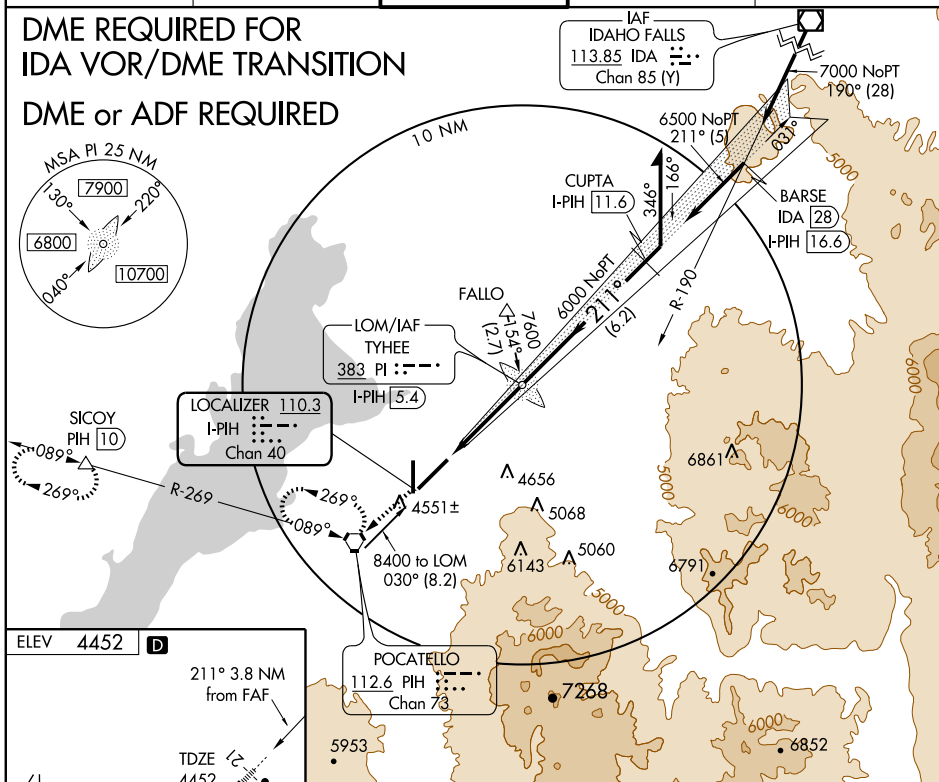
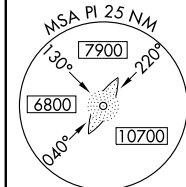
POCATELLO TOWER★
119.1 (CTAF) **0** 257.8

GND CON
121.9

UNICOM
122.95

DME REQUIRED FOR IDA VOR/DME TRANSITION

DME or ADF REQUIRED



ELEV	4452
------	------

D

211° 3.8 NM
from FAF,

TDZE 4452



TWR

4557

FILED 17

IRL Rwy 3-21 **L**

3.8 NM

7400 ↑	PIH 112.6	↑ PIH R-269	PIH 112.6	TYHEE LOM* I-PIH 5.4	Remain within 10 NM
* Procedure turn not authorized for Cat. E aircraft.				031° 211° 7600 6000 GS 3.00° TCH 56 Use I-PIH DME when on LOC course.	
CATEGORY	A	B	C	D	E
S-ILS 21	** 4652/24 200 (200-½)				
S-LOC 21	4740/24	288 (300-½)		4740/40	288 (300-¾)
CIRCLING	4820-1 368 (400-1)	4920-1 468 (500-1)	4920-1½ 468 (500-1½)	5020-2	568 (600-2)

NW-1 14 JAN 2010 to 11 FEB 2010

128,35 239,25

... via assigned route expect filed altitude 10 minutes after departure.

RNAV (GPS) RWY 3
POCATELLO RGNL (PIH)

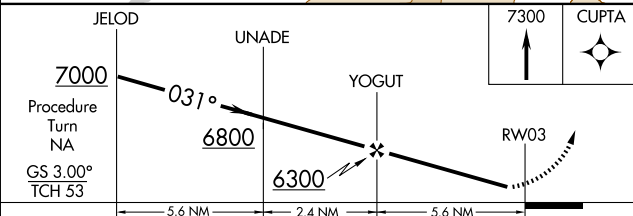
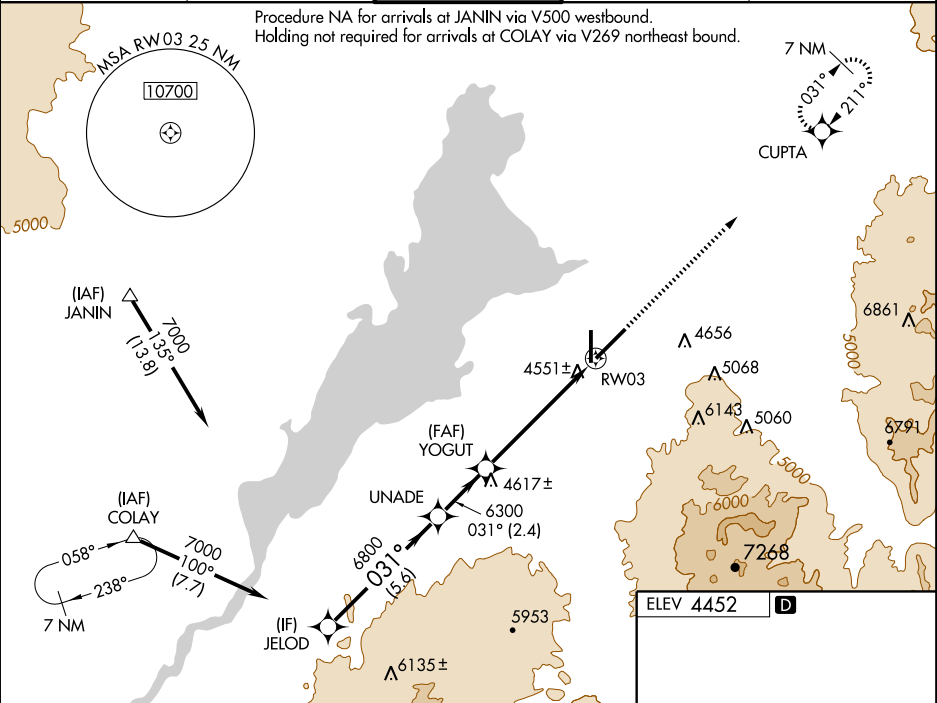
WAAS CH 97502 W03A	APP CRS 031°	Rwy Idg TDZE 4444 Apt Elev 4452
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⚠ Inoperative table does not apply. Circling NA southeast of Rwy 3-21.
⚠ DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (9°F) or above 40°C (104°F). If local altimeter setting not received, use Idaho Falls Rgnl altimeter setting and increase all DAs/MDAs 140 feet.
Baro-VNAV NA when using Idaho Falls Rgnl altimeter setting.

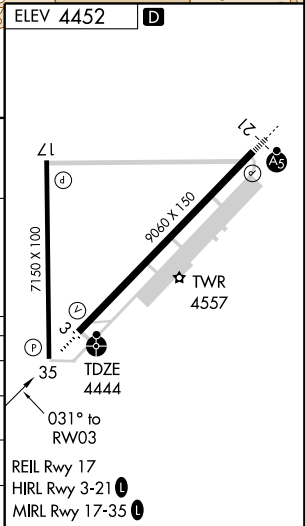
ODALS

MISSED APPROACH:
Climb to 7300 direct
CUPTA and hold.

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER★ 119.1 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	4694-1 250 (300-1)			
LNAV/VNAV DA	4978-1¾ 534 (600-1¾)			
LNAV MDA	4880-1 436 (500-1)	4880-1¼ 436 (500-1¼)	4880-1½ 436 (500-1½)	
CIRCLING	4980-1 528 (600-1)	4980-1½ 528 (600-1½)	5020-2 568 (600-2)	



WAAS CH 78212 W21A	APP CRS 211°	Rwy Idg TDZE Apt Elev	9060 4452 4452
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RNAV (GPS) RWY 21

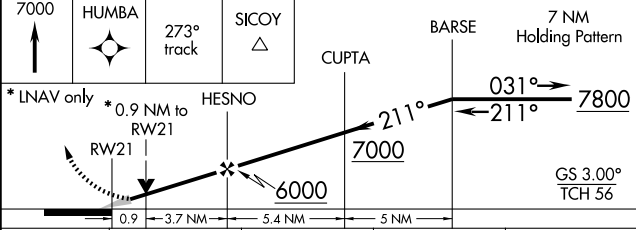
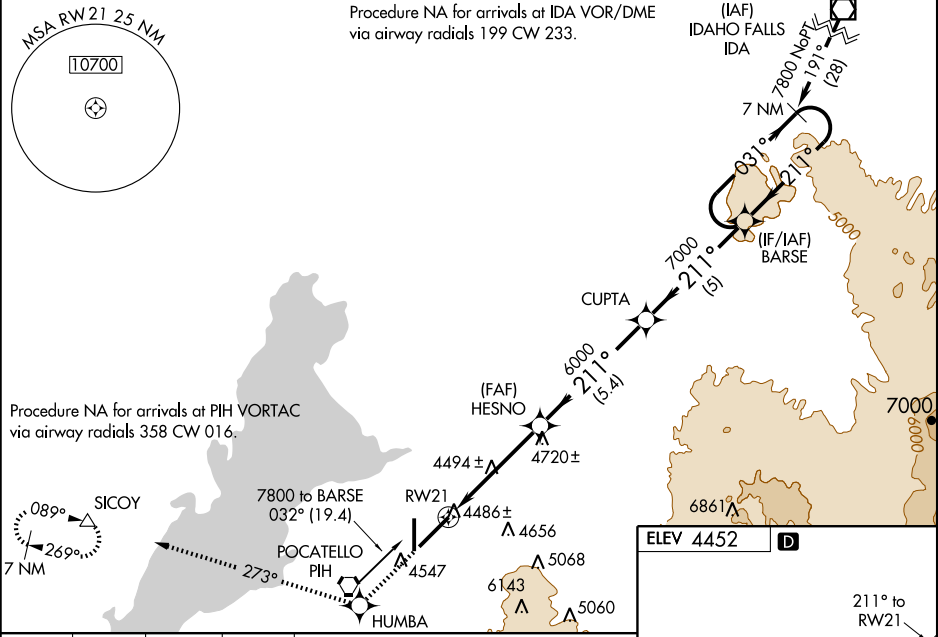
POCATELLO RGNL (PIH)

▼ Inoperative table does not apply to LNAV Cat D. For inoperative MALSR when using Idaho Falls altimeter setting, increase LPV all Cats visibility to 1 1/4 mile.
▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 39°C (102°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Idaho Falls altimeter setting and increase all DA and MDA 140 feet; increase LPV all Cats, LNAV Cat C, and Circling Cat C and D visibility 1/2 mile, increase LNAV/VNAV all Cats visibility 1/2 mile.
Baro-VNAV and VDP NA when using Idaho Falls altimeter setting.
Circling NA southeast of Rwy 3-21. Circling NA at night to Rwy 17-35.

MALSR

MISSED APPROACH:
Climb to 7000 direct HUMBA and via 273° track to SICOY and hold.

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER★ 119.1 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	4652/24		200 (200-1/2)	
LNAV/VNAV DA	4797/40		345 (400-3/4)	
LNAV MDA	4780/24		328 (400-1/2)	
CIRCLING	4820-1	4920-1	4920-1 1/2	5020-2
	368 (400-1)	468 (500-1)	468 (500-1 1/2)	568 (600-2)

ELEV 4452 **D**

REIL Rwy 17
HIRL Rwy 3-21
MIRL Rwy 17-35

VORTAC PIH

112.6

Chan 73

APP CRS

211°

Rwy Idg

9060

TDZE

4452

Apt Elev

4452

✚

Circling NA Southeast of Rwy 3-21.
For inoperative MALSR increase S-21 Cat. D
and E visibility to 1¼.

MALSR

MISSED APPROACH: Climb to 7400 direct PIH VORTAC, continue climb via PIH VORTAC R-269, then right turn direct PIH VORTAC and hold (TACAN aircraft continue via PIH VORTAC R-269 to SICOY/PIH 10 DME and hold W, right turns, 089° inbound).

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER ★ 119.1 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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TACAN MISSED APCH FIX

Hold in lieu not authorized for Cat E.

IDAHO FALLS
113.85 IDA
Chan 85 (Y)

(IAF)
JEGLO INT
PIH 29
IDA 20.1

8200 NoPT
211°
(10)

R-177

R-031

(IAF)
GULBE
PIH 19

6400
211°
(9)

CATRI
PIH 10

FALGU
PIH 5.9

8200 to GULBE
031° (19)

POCATELLO
112.6 PIH
Chan 73

MSA PIH 25 NM

7600

6800

10700

130°

220°

040°

112.6 PIH
Chan 25

R-269

089°

269°

4551±

4656

5068

6143

5060

6791

8949

10 NM

1 mile

ELEV 4452

7400

PIH

112.6

PIH

PIH R-269

PIH

GULBE

PIH 19

One Minute Holding Pattern

RW21

PIH 4.4

FALGU

PIH 5.9

CATRI

PIH 10

5020

6400

8200

031°

211°

211°

5.6 NM from FAF

21

35

7150 X 100

TDZE 4452

9060 X 150

TWR 4557

VGSI and descent angles not coincident.

CATEGORY	A	B	C	D	E
S-21	4840/24	388 (400-½)		4840/50	388 (400-1)
CIRCLING	4840-1 388 (400-1)	4920-1 468 (500-1)	4920-1½ 468 (500-1½)	5020-2	568 (600-2)

REIL Rwy 17

HIRL Rwy 3-21

MIRL Rwy 17-35

NW-1. 14 JAN 2010 to 11 FEB 2010

▼

Circling not authorized Southeast of Rwy 3-21.
Inoperative table does not apply.

ODALS

MISSED APPROACH:

Climbing left turn direct PIH VORTAC, continue to 7400 via PIH VORTAC R-269, then right turn direct PIH VORTAC and hold (TACAN aircraft continue via R-269 to SICOY/PIH 10 DME and hold W, right turns, 089° inbound).

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER* 119.1 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-3	4940-1	496 (500-1)		NA
CIRCLING	4940-1 488 (500-1)	4940-1½ 488 (500-1½)		NA

FAF to MAP 2.9 NM					
Knots	60	90	120	150	180
Min:Sec	2:54	1:56	1:27	1:10	0:58

NW-1. 14 JAN 2010 to 11 FEB 2010

APP CRS
351°

Rwy Idg **3900**
TDZE **4858**
Apt Elev **4858**

RNAV (GPS) RWY 35

REXBURG-MADISON COUNTY (R.XE)

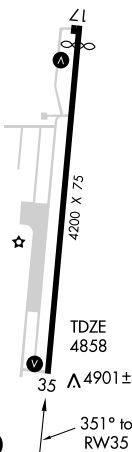
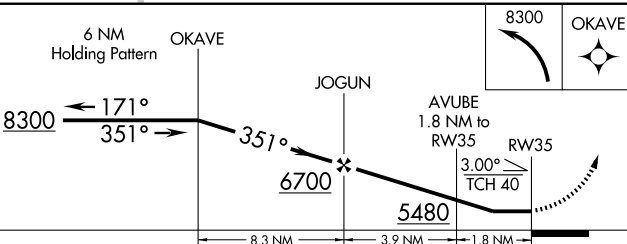
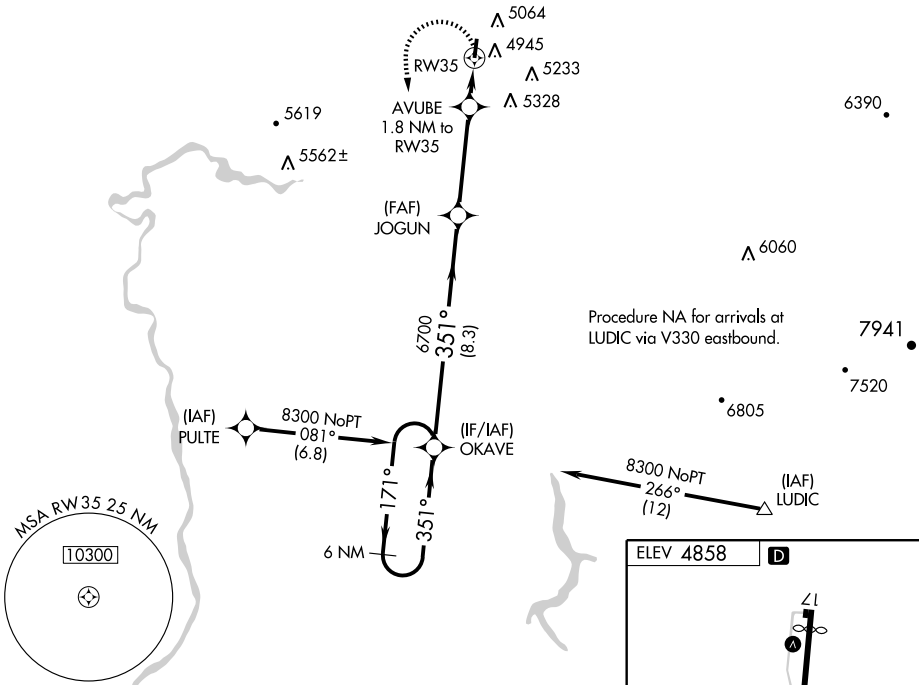
▽ If local altimeter setting not received, use Idaho Falls
▲ Rgnl altimeter setting and increase all MDAs 80 feet.
When VGSI inoperative, procedure NA at night.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn
to 8300 direct OKAVE and hold.

ASOS
135.075

SALT LAKE CENTER
128.35 239.25

UNICOM
122.8 (CTAF) 0

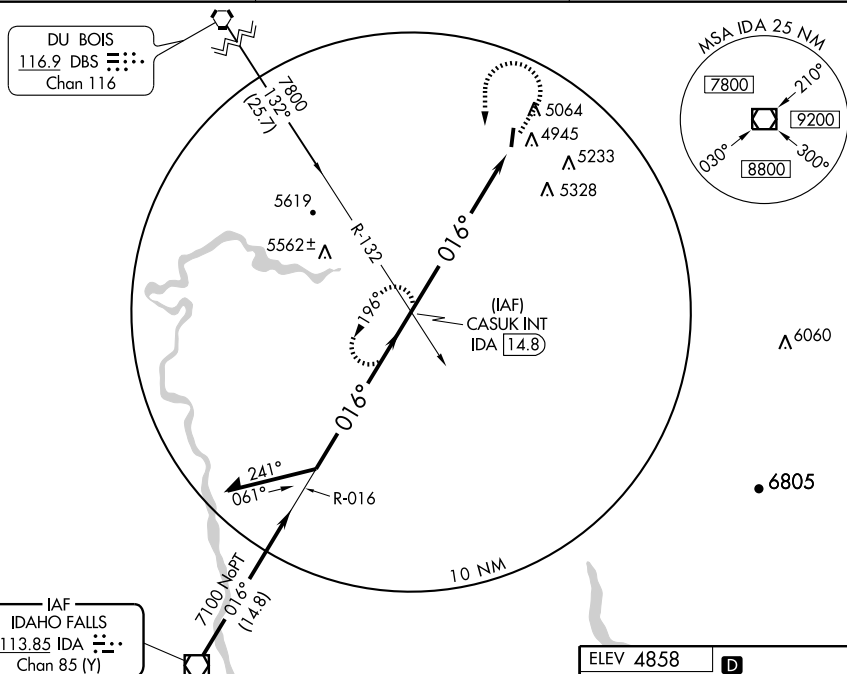


CATEGORY	A	B	C	D
RNAV MDA	5260-1	402 (500-1)	5260-1¼	402 (500-1¼)
CIRCLING	5380-1 522 (600-1)	5580-1 722 (800-1)	5580-2 722 (800-2)	5620-2½ 762 (800-2½)

REIL Rwy 35 0
MRL Rwy 17-35

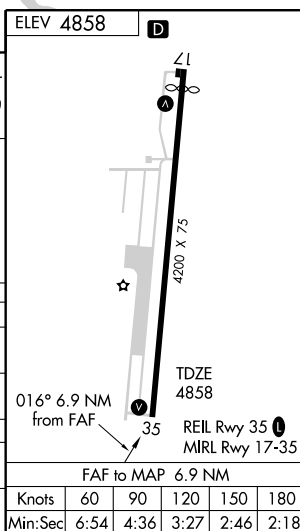
MISSED APPROACH: Climb to 6200 then climbing left turn to 7100 via IDA R-016 to CASUK Int/IDA 14.8 DME and hold.

UNICOM
122.8 (CTAF) **L**

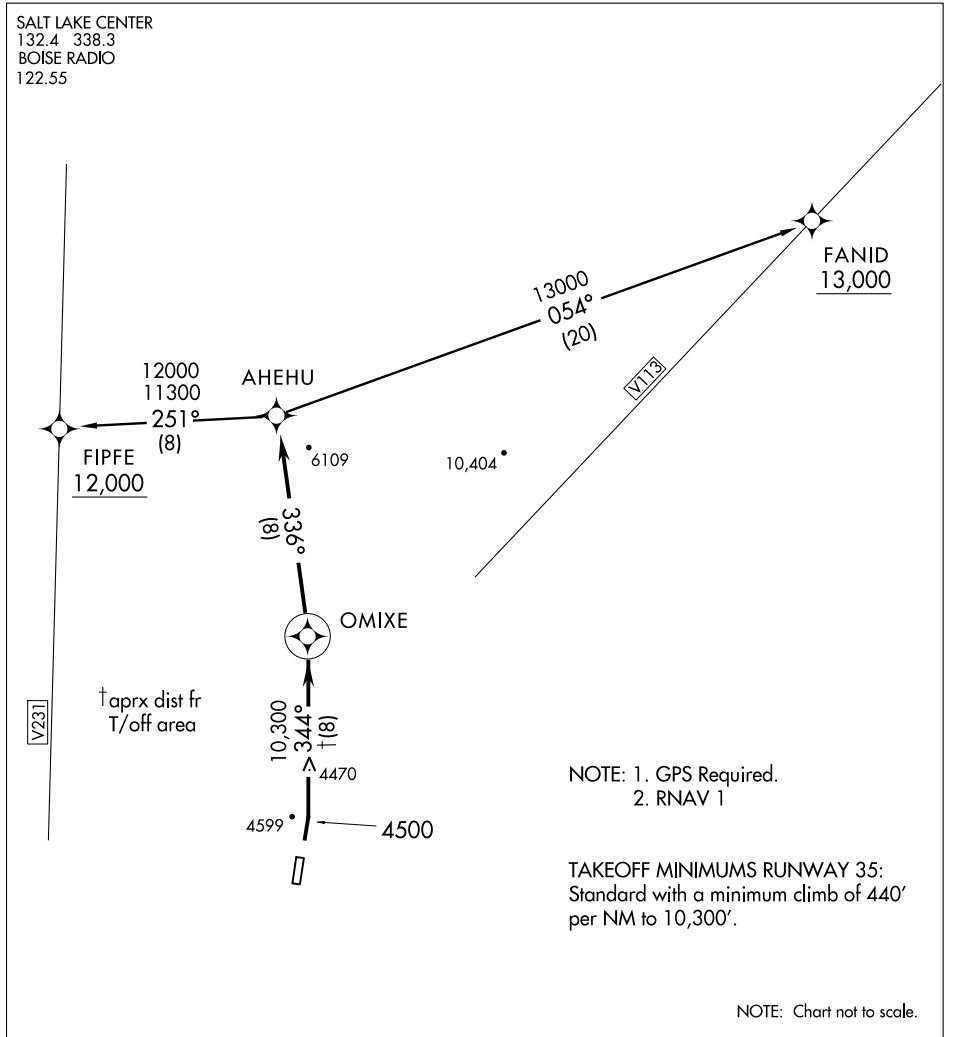


Remain
within 10 NM

CATEGORY	A	B	C	D
S-35	5640-1 782 (800-1)	5640-1¼ 782 (800-1¼)	5640-2¼ 782 (800-2¼)	5640-2½ 782 (800-2½)
CIRCLING	5640-1 782 (800-1)	5640-1¼ 782 (800-1¼)	5640-2¼ 782 (800-2¼)	5660-2½ 802 (900-2½)
IDAHO FALLS RGNL ALTIMETER SETTING MINIMUMS				
S-35	5820-1¼ 962 (1000-1¼)	5820-1½ 962 (1000-1½)	5820-3 962 (1000-3)	
CIRCLING	5820-1¼ 962 (1000-1¼)	5820-1½ 962 (1000-1½)	5820-3 962 (1000-3)	



AHEHU ONE DEPARTURE (RNAV)



NW-1, 14 JAN 2010 to 11 FEB 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: NA.

TAKE-OFF RUNWAY 35: Climb runway heading to 4500', then climbing left turn to 10,300' via 344° course to OMIXE WP, then via 336° course to AHEHU WP.

Thence

FANID TRANSITION (AHEHU1.FANID):

FIPFE TRANSITION (AHEHU1.FIPFE):

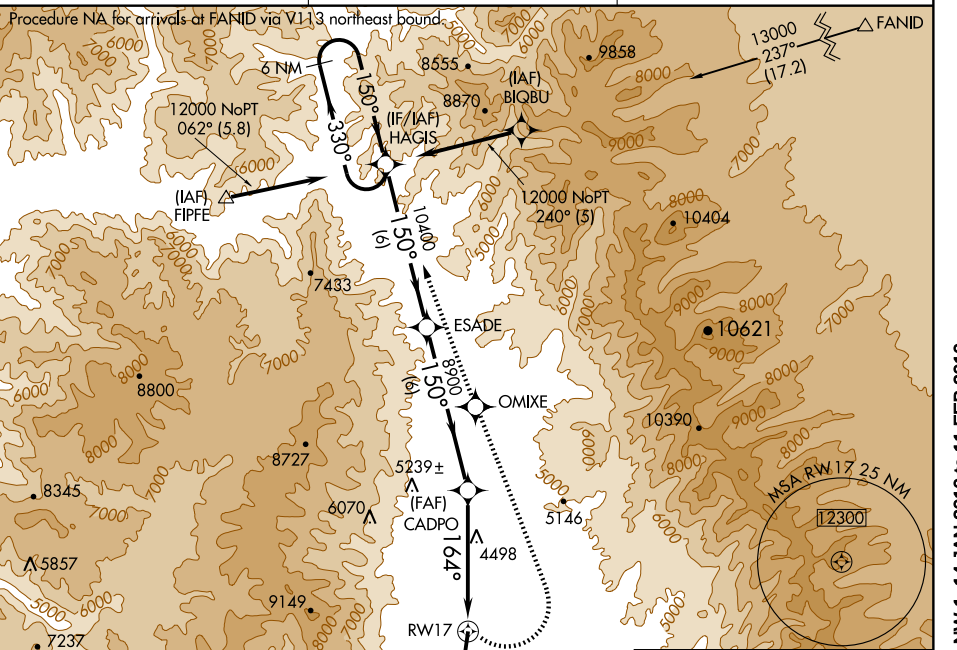
▼

▲NA

DME/DME RNP -0.3 NA.

MISSED APPROACH: Climbing left turn to 12000 direct OMIXE and via 324° track to HAGIS and hold. Continue climb-in-hold to 12000.

AWOS-3 135.075	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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ELEV 4043

164° to RW17

35'

51.50 X 60

REIL Rwy 17 0

MIRL Rwy 17-35 0

6 NM Holding Pattern	HAGIS	12000	OMIXE	324° track	HAGIS	
12000	330°	150°	150°	10400	9.00° TCH 55	RW17
VGSI and descent angles not coincident.						
6 NM		6 NM		5 NM		
CATEGORY	A	B	C	D		
CIRCLING	7400-1¼ 3357 (3400-1¼)	7400-1½ 3357 (3400-1½)	NA			

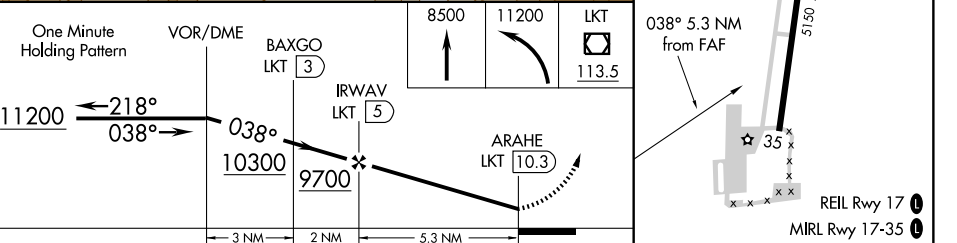
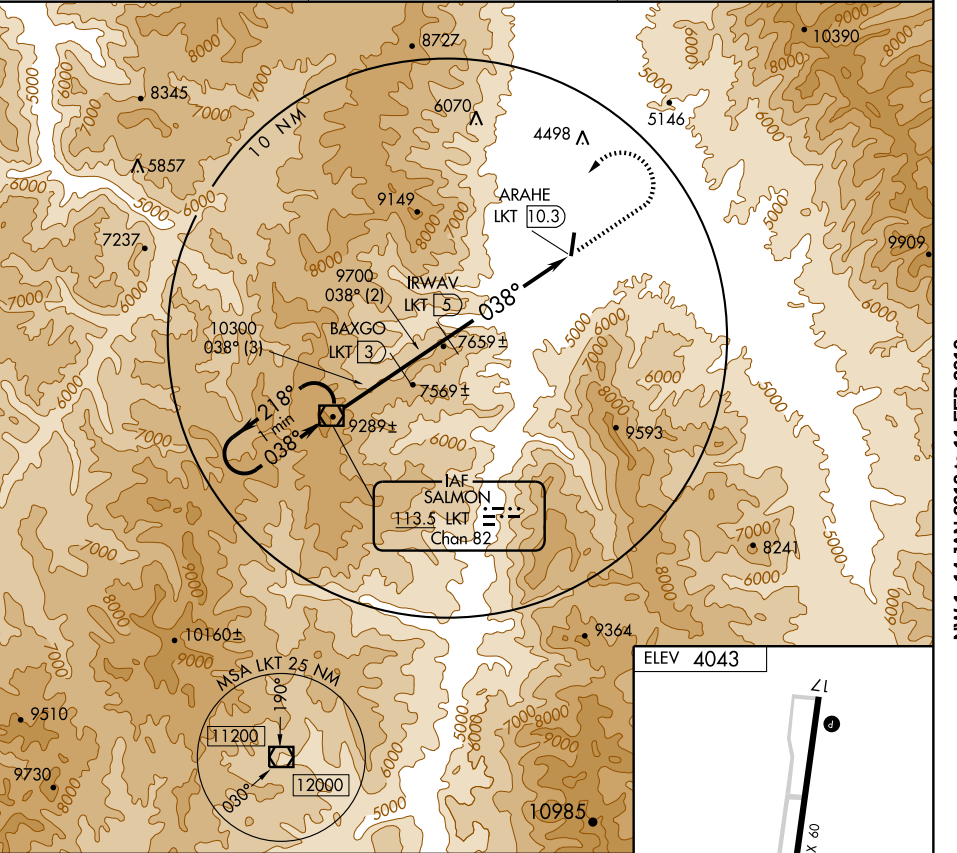
NW-1, 14 JAN 2010 to 11 FEB 2010

▼

▲ NA

MISSED APPROACH: Climb to 8500 then climbing left turn to 11200 direct LKT VOR/DME and hold.

AWOS-3 135.075	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	8000-1¼ 3957 (4000-1¼)	8000-1½ 3957 (4000-1½)	8000-3 3957 (4000-3)	NA	Min:Sec					

LOC/DME I-RPO 109.1 Chan 28	APP CRS 014°	Rwy Idg TDZE Apt Elev	N/A N/A 2131
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LOC/DME-A
SANDPOINT (SZT)

T
ANA Circling not authorized west of Rwy 1-19.

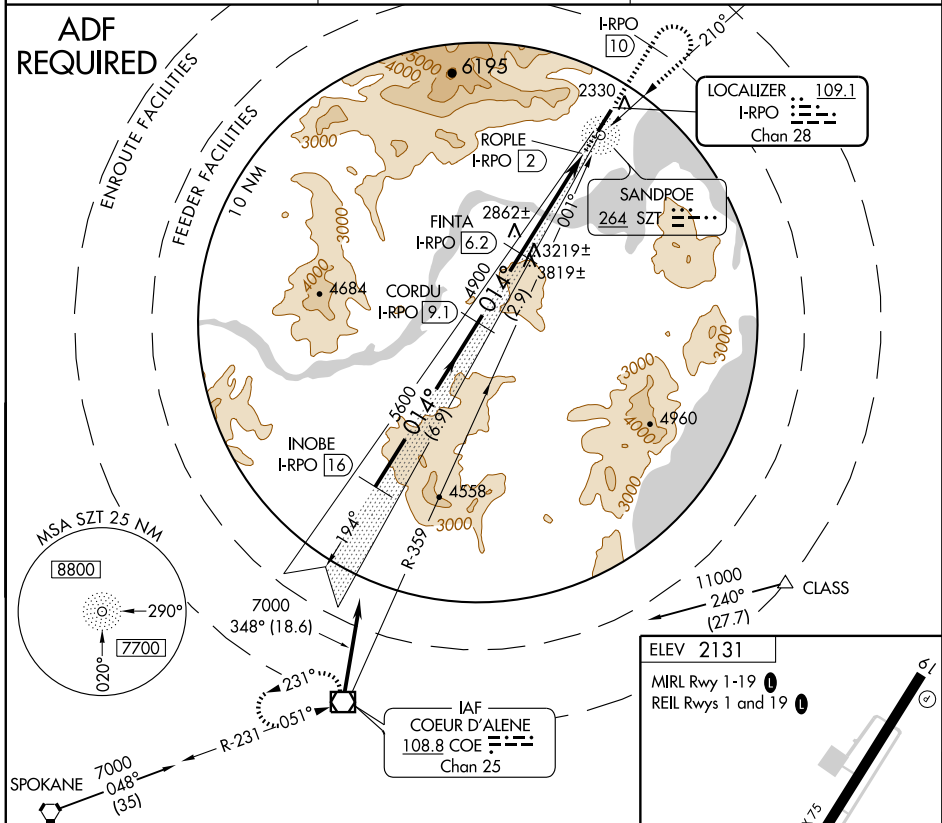
MISSED APPROACH: Climb to 8000 via heading 014° to I-RPO 10 DME, then climbing right turn via SZT bearing 030° to SZT NDB, cross SZT NDB at 8000, then via SZT bearing 181° and COE R-359 to COE VOR/DME and hold.

AWOS-3
135.425

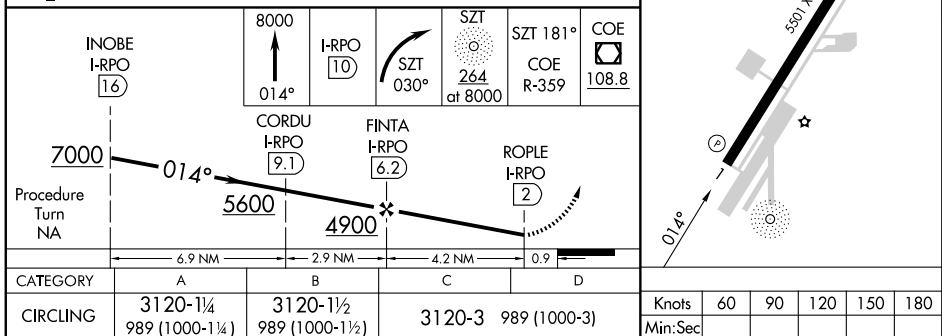
SEATTLE CENTER
123.95 282.3

UNICOM
122.7 (CTAF) **L**

ADF
REQUIRED

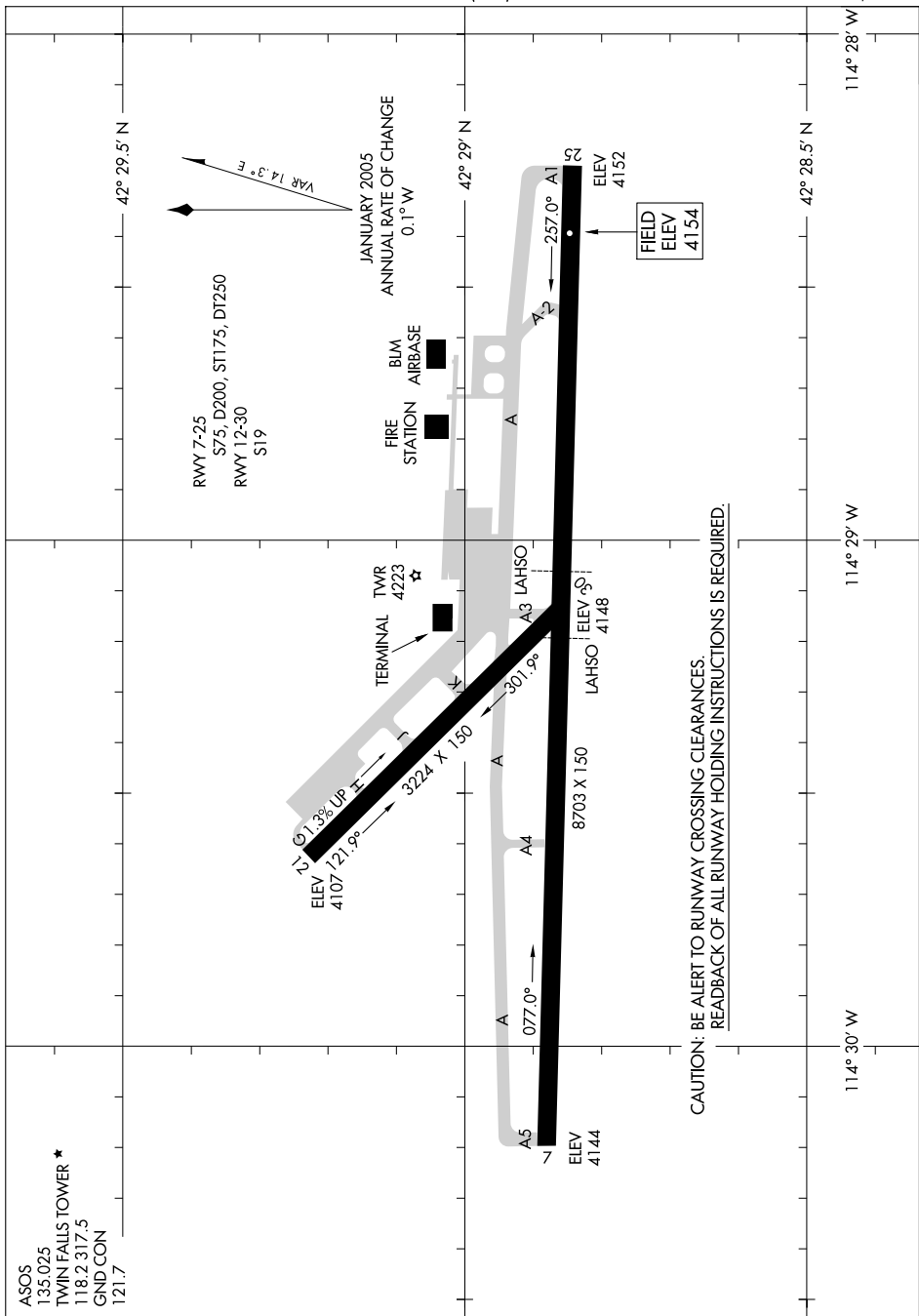


NW-1. 14 JAN 2010 to 11 FEB 2010



AIRPORT DIAGRAM

TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)
AL-885 (FAA) TWIN FALLS, IDAHO



TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)

MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 via heading 020° and TWF VORTAC R-349 to TOXEE INT/TWF 13 DME and hold.

UNICOM
122.95FAF to MAP 5.2 NM

Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

4600
↑
hdg 020°

7000
TWF R-349
115.8
TOXEE △

STRIK LOM
TWF 6

One Minute Holding Pattern

5882

075° → 6200
← 255°

5900

GS 3.00°
TCH 55

5.2 NM

CATEGORY	A	B	C	D	E
S-ILS 25	4354-½ 200 (200-½)				
S-LOC 25	4480-½	326 (400-½)	4480-¾	326 (400-¾)	
CIRCLING	4680-1	526 (600-1)	4700-1½ 546 (600-1½)	4780-2 626 (700-2)	5020-3 866 (900-3)

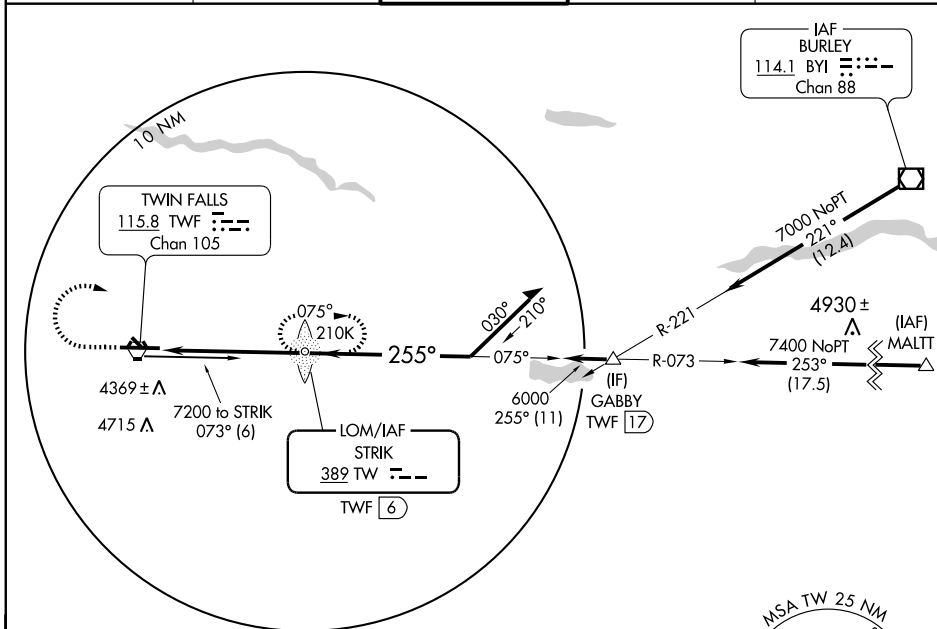
LOM TW 389	APP CRS 255°	Rwy Idg TDZE Apt Elev	8703 4154 4154
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▼ When local altimeter setting not received, use Jerome altimeter setting and increase all MDA 60 feet and Circling Cats C and D visibility ¼ mile.

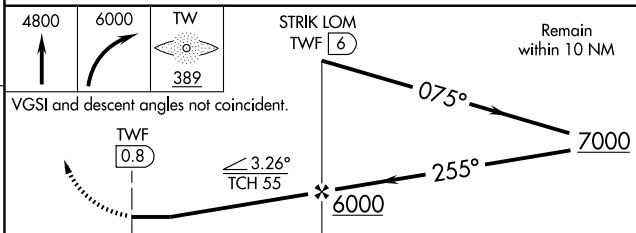
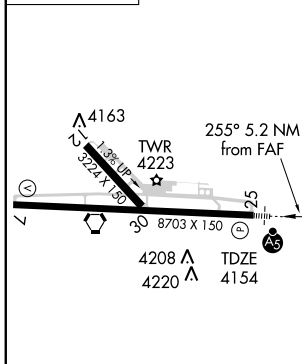


MISSED APPROACH: Climb to 4800 then climbing right turn to 6000 direct STRIK LOM and hold.

ASOS 135.025	TWIN FALLS APP CON ★ 126.7 353.75	TWIN FALLS TOWER ★ 118.2 (CTAF) 0 317.5	GND CON 121.7	UNICOM 122.95
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ELEV 4154



REIL Rwy 7 **L**

HIRL Rwy 7-25 **L**

FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

CATEGORY	A	B	C	D
S-25	4680-¾ 526 (600-¾)		4680-1 526 (600-1)	4680-1½ 526 (600-1½)
CIRCLING	4680-1 526 (600-1)	4720-1 566 (600-1)	4740-1½ 586 (600-1½)	4800-2 646 (700-2)

WAAS
CH **40211**
W07A

APP CRS
075°

Rwy Idg
TDZE
Apt Elev

8703
4149
4154

Baro-VNAV NA when using Jerome altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 40°C (104°F). DME/DME RNP-0.3 NA.
When local altimeter setting not received, use Jerome altimeter setting and increase all DA/MDA 60 feet and increase LPV and LNAV/VNAV all Cats, and LNAV Cats C and D visibility ¼ mile. VDP NA when using Jerome altimeter setting.

MISSED APPROACH: Climb to 6000 direct YOYUN and via 345° track to ZUPNU and via 277° track to SECAR and hold.

ASOS 135.025	TWIN FALLS APP CON* 126.7 353.75	TWIN FALLS TOWER* 118.2 (CTAF) 317.5	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	4399-3/4 250 (300-3/4)			
LNAV/VNAV DA	4668-13/4 519 (600-13/4)			
LNAV MDA	4620-1	471 (500-1)	4620-11/4 471 (500-11/4)	4620-11/2 471 (500-11/2)
CIRCLING	4680-1 526 (600-1)	4720-1 566 (600-1)	4740-11/2 586 (600-11/2)	4800-2 646 (700-2)

REIL Rwy 7

HIRL Rwy 7-25

NW-1. 14 JAN 2010 to 11 FEB 2010

WAAS
CH **56311**
W25A

APP CRS
255°

Rwy Idg
TDZE
Apt Elev

8703
4154
4154

Baro-VNAV NA when using Jerome altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 40°C (104°F). DME/DME RNP-0.3 NA. For inoperative MALSR, increase LNAV visibility Cat D to 1 mile. When local altimeter setting not received, use Jerome altimeter setting and increase all DA/MDA 60 feet and all visibilities ¾ mile. When using Jerome altimeter setting, inoperative table does not apply. VDP NA when using Jerome altimeter setting.

MALSR

MISSED APPROACH: Climb to 6000 direct UCUVU and via 301° track to SECAR and hold.

ASOS 135.025	TWIN FALLS APP CON * 126.7 353.75	TWIN FALLS TOWER * 118.2 (CTAF) 0 317.5	GND CON 121.7	UNICOM 122.95
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MISSED APCH FIX

ELEV 4154

REIL Rwy 7	HIRL Rwy 7-25						
6000	UCUVU	301° trk	SECAR	VUPCU	SOREE	7100	7 NM Holding Pattern
*INAV only							
*1.1 NM to RW25							
RW25							
1.1 NM 4.8 NM 6.3 NM							
CATEGORY	A	B	C	D			
LPV DA	4354-½		200 (200-½)				
LNAV/VNAV DA	4531-¾		377 (400-¾)				
LNAV MDA	4560-½	406 (500-½)	4560-¾	406 (500-¾)	4560-1	406 (500-1)	
CIRCLING	4680-1	526 (600-1)	4720-1	566 (600-1)	4740-1½	4800-2	646 (700-2)

SNAKO ONE DEPARTURE

GND CON

121.7

TWIN FALLS TOWER*

118.2 317.5

TWIN FALLS DEP CON*

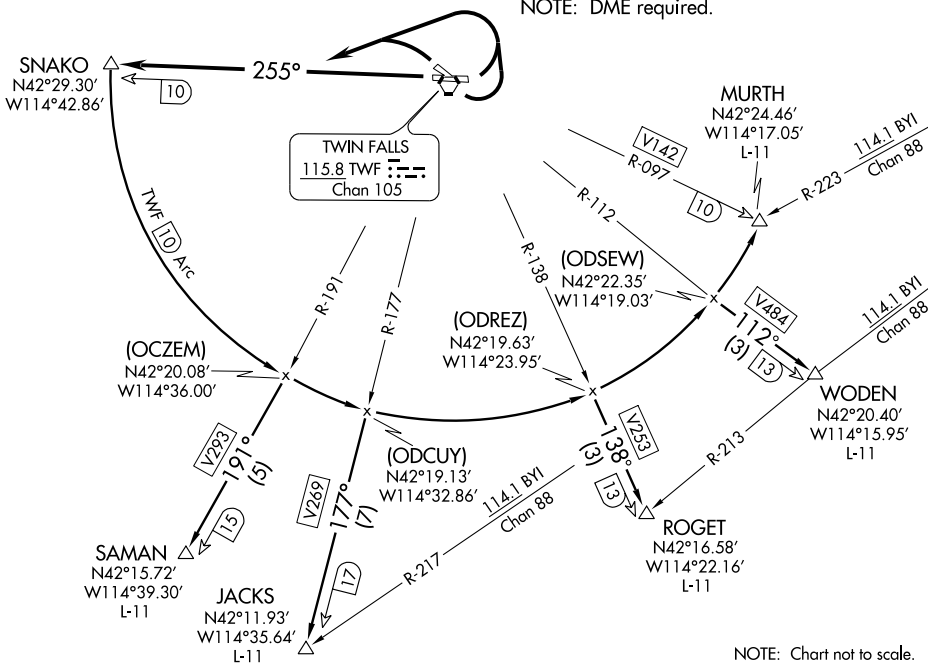
126.7 353.75

ASOS 135.025

NOTE: ROGET transition requires a minimum climb of 290' per NM to 7600'.

NOTE: MURTH transition requires a minimum climb of 210' per NM to 10500'.

NOTE: DME required.



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 25: Climb runway heading, thence. . .TAKE-OFF RUNWAYS 7, 30, 12: Climbing left turn, thence. . .

. . . intercept and proceed via TWF R-255 to SNAKO DME Fix, thence via (assigned transition).

JACKS TRANSITION (SNAKO1.JACKS): From over SNAKO DME Fix via 10 DME Arc and V269 to JACKS INT. Thence via (assigned route).MURTH TRANSITION (SNAKO1.MURTH): From over SNAKO DME Fix via 10 DME Arc and V142 to MURTH INT. Thence via (assigned route).ROGET TRANSITION (SNAKO1.ROGET): From over SNAKO DME Fix via 10 DME Arc and V253 to ROGET INT. Thence via (assigned route).SAMAN TRANSITION (SNAKO1.SAMAN): From over SNAKO DME Fix via 10 DME Arc and V293 to SAMAN INT. Thence via (assigned route).WODEN TRANSITION (SNAKO1.WODEN): From over SNAKO DME Fix via 10 DME Arc and V484 to WODEN INT. Thence via (assigned route).

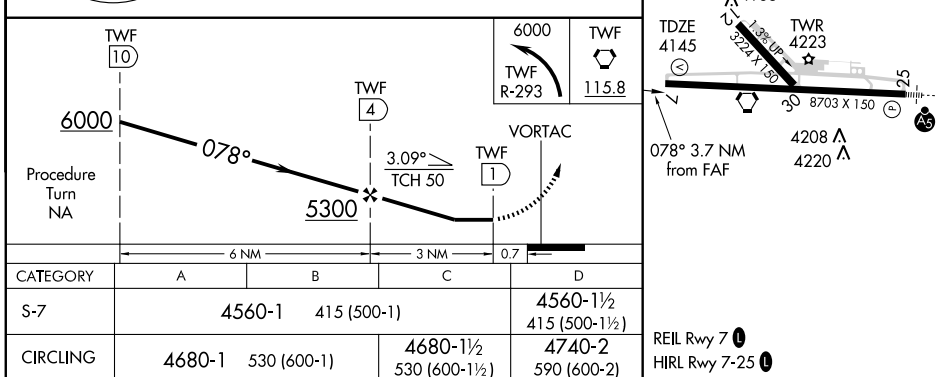
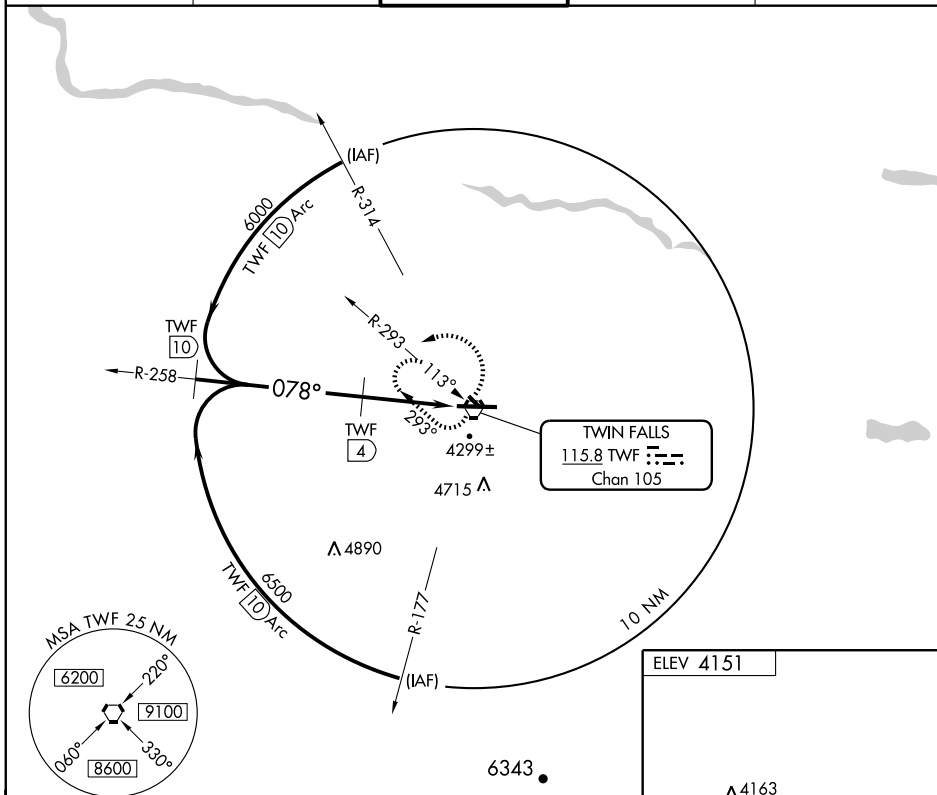
VORTAC TWF	APP CRS	Rwy Idg	8703
115.8	078°	TDZE	4145
Chan 105		Apt Elev	4151

VOR/DME RWY 7

TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)

MISSED APPROACH: Climbing left turn to 6000 on TWF R-293 within 10 NM, return to VORTAC and hold.

ASOS 135.025	TWIN FALLS APP CON ★ 126.7 353.75	TWIN FALLS TOWER ★ 118.2 (CTAF) 317.5	GND CON 121.7	UNICOM 122.95
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VORTAC TWF

115.8

Chan 105

APP CRS

077°

Rwy Idg

8703

TDZE

4149

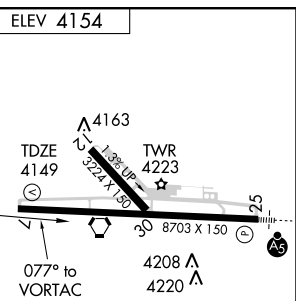
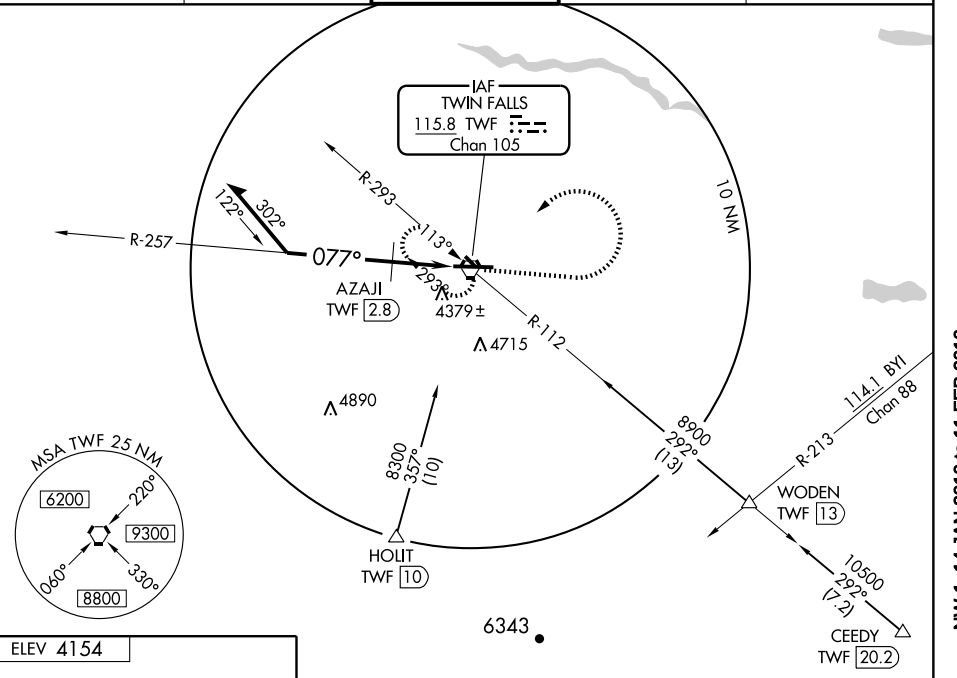
Apt Elev

4154

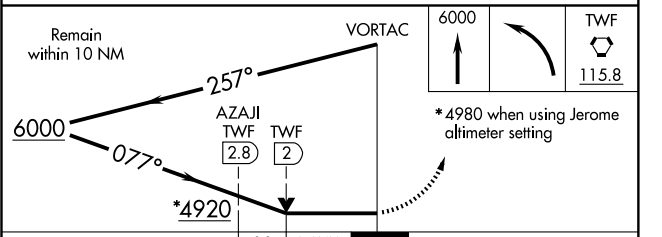
When local altimeter setting not received, use Jerome altimeter setting and increase all MDA 60 feet and visibility Cat C and D ¼ mile.
VDP NA when using Jerome altimeter setting.

MISSED APPROACH: Climb to 6000 then left turn direct TWF VORTAC and hold.

ASOS	TWIN FALLS APP CON*	TWIN FALLS TOWER *	GND CON	UNICOM
135.025	126.7 353.75	118.2 (CTAF) 0 317.5	121.7	122.95



REIL Rwy 7
HIRL Rwy 7-25



CATEGORY	A	B	C	D
S-7	4920-1 771 (800-1)	4920-1 ¼ 771 (800-1 ¼)	4920-2 ¼ 771 (800-2 ¼)	4920-2 ½ 771 (800-2 ½)
CIRCLING	4920-1 766 (800-1)	4920-1 ¼ 766 (800-1 ¼)	4920-2 ¼ 766 (800-2 ¼)	4920-2 ½ 766 (800-2 ½)
AZAJI FIX MINIMUMS				
S-7	4640-1	491 (500-1)	4640-1 ¼ 491 (500-1 ¼)	4640-1 ½ 491 (500-1 ½)
CIRCLING	4680-1 526 (600-1)	4720-1 566 (600-1)	4740-1 ½ 586 (600-1 ½)	4800-2 646 (700-2)

NW-1. 14 JAN 2010 to 11 FEB 2010

VORTAC TWF	APP CRS	Rwy Idg	8703
115.8	248°	TDZE	4150
Chan 105		Apt Elev	4151

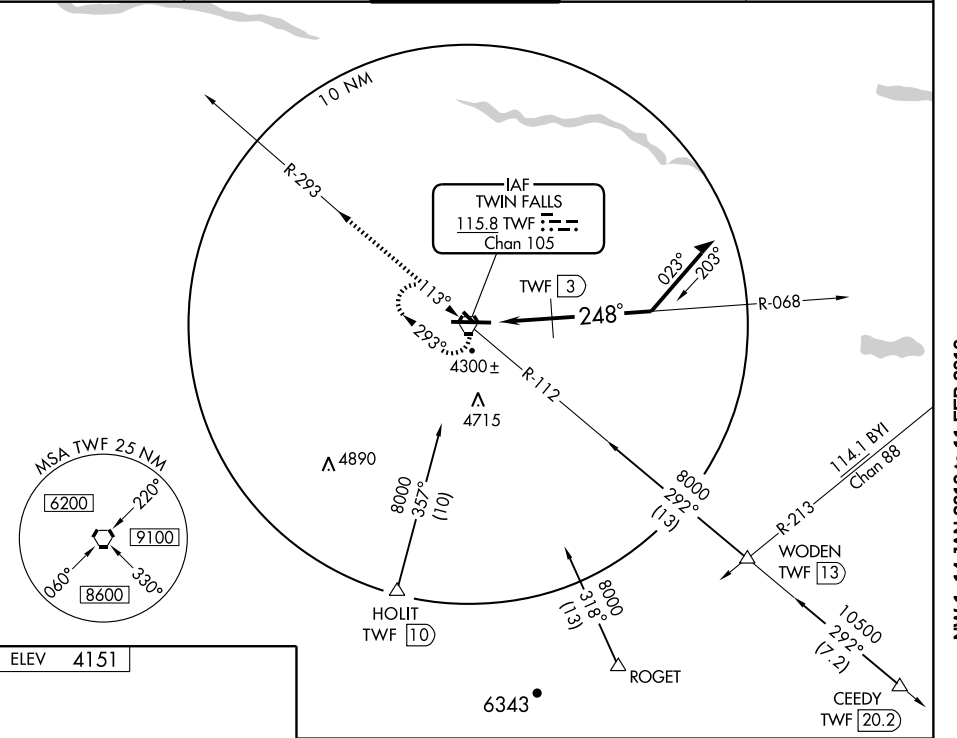
▼

MALSR

MISSED APPROACH: Climbing right turn to 6000 on R-293

TWF VORTAC within 10 NM, return to VORTAC and hold.

ASOS 135.025	TWIN FALLS APP CON ★ 126.7 353.75	TWIN FALLS TOWER ★ 118.2 (CTAF) 317.5	GND CON 121.7	UNICOM 122.95
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ELEV 4151

REIL Rwy 7

HIRL Rwy 7-25

6000

TWF

6000

VORTAC

068°

248°

4620

3 NM

Remain within 10 NM

CATEGORY	A	B	C	D
S-25	4620-½	470 (500-½)	4620-¾ 470 (500-¾)	4620-1¼ 470 (500-1¼)
CIRCLING	4680-1	530 (600-1)	4680-1½ 530 (600-1½)	4740-2 590 (600-2)
DME MINIMA				
S-25	4560-½ 410 (500-½)			4560-1 410 (500-1)

NW-1. 14 JAN 2010 to 11 FEB 2010

APP CRS 301°	Rwy Idg TDZE Apt Elev	N/A N/A 2120
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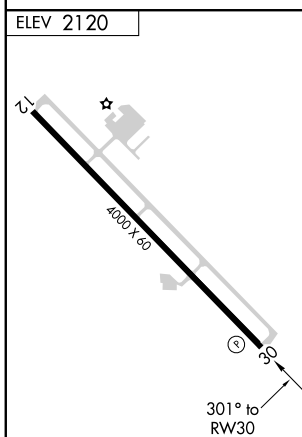
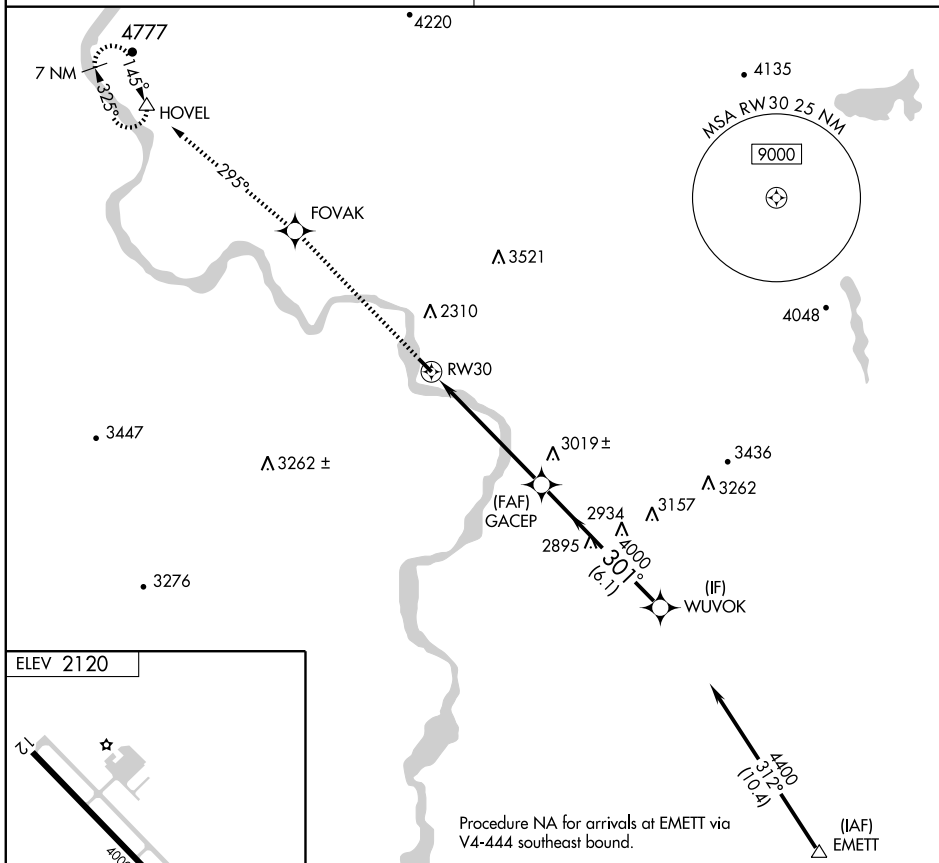
RNAV (GPS)-A
WEISER MUNI (S87)

T	DME/DME RNP-0.3 NA. Procedure NA at night.
A NA	Use Ontario altimeter setting; when not received, use Boise altimeter setting and increase all MDAs 160 feet.

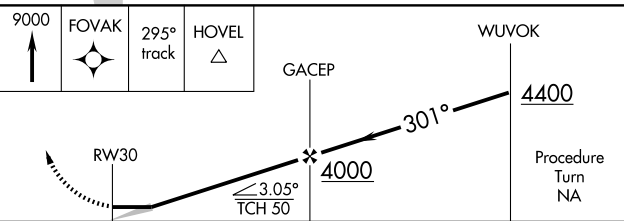
MISSED APPROACH: Climb to 9000 direct FOVAK and via 295° track to HOVEL and hold, continue climb-in-hold to 9000.

SALT LAKE CENTER
128.05 387.15

UNICOM
122.8 (CTAF) **L**



MIRL Rwy 12-30 **L**
REIL Rwy 12 and 30 **L**

9000 ↑	FOVAK ✦	295° track	HOVEL △			
CATEGORY	A		B		C	D
CIRCLING	3480-1¼ 1360 (1400-1¼)		3480-1½ 1360 (1400-1½)		3480-3	1360 (1400-3)

INSTRUMENT APPROACH PROCEDURE CHARTS



IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

¹NA when local weather not available.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Category C, 800-2¾; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

¹Category D, 800-2¾.

²NA when local weather not available.

³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

¹Categories A,B, 1100-2; Categories C,D,
1100-3.

²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

¹NA when local weather not available.

²Category D, 900-2¾.

³Categories A,B, 1900-2; Categories C,D,
1900-3.

⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¾.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

¹Category D, 800-2¾.

²Categories A,B,C,D, 800-2¾.

³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L¹
RNAV (GPS) Y Rwy 10R²
RNAV (GPS) Y Rwy 28L²
VOR/DME or TACAN Rwy 10L¹
VOR/DME or TACAN Rwy 28L¹

¹Category E, 900-3.

²Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¾; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL .. RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹

NA when local weather not available.

¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY RNAV (GPS) Rwy 31¹
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2½.

²Category C, 800-2¼; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI VOR-A
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL NDB Rwy 10¹
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI VOR Rwy 30
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY ILS Y Rwy 15¹
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL ILS or LOC Rwy 3
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2¼; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2¼; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD ILS or LOC Rwy 27¹
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL RNAV (GPS) Rwy 22¹
VOR or GPS-A²

¹Category C, 800-2¼; Category D, 200-2¼.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD ILS or LOC/DME Rwy 5
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI VOR-A
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK RNAV (GPS) Rwy 34
NA when local weather not available.

DILLON, MT

DILLON VOR or GPS-A,1500-3
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY VOR Rwy 29
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND RNAV (GPS)-A
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD RNAV (GPS) Rwy 25¹
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2¼.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI RNAV (GPS) Rwy 3¹
RNAV (GPS) Rwy 21²
VOR/DME Rwy 3¹
VOR Rwy 21¹

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2¼; Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD ILS or LOC/DME Z Rwy 16R¹
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L^{1,2}
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2¼;
Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD ILS or LOC/DME Rwy 23
Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) ILS or LOC/DME Rwy 16R
NA when control tower closed.
NA when local weather not available.

FORT BENTON, MT

FORT BENTON RNAV (GPS) Rwy 23
NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY ILS or LOC Rwy 34^{1,2}
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2¼;
Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¼; Category D,
1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¼; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL VOR Rwy 12
Categories A,B, 900-2; Categories C,D, 900-3.
VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY NDB or GPS Rwy 12,900-2¾

GOODING, ID

GOODING MUNI RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA NDB Rwy 15
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL NDB Rwy 34
Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY RNAV (GPS)-A
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL RNAV (GPS) W Rwy 31
Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY VOR Rwy 26
Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁵
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷⁹
 VOR-A⁸
 VOR/DME-B⁵

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY

JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

NAME ALTERNATE MINIMUMS

JEROME, ID

JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KLAMATH FALLS, OR

KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2½.

LEWISTON, ID

LEWISTON-NEZ PERCE
 COUNTY ILS Rwy 26¹²
 RNAV (GPS) Rwy 8³
 RNAV (GPS) Rwy 12³
 RNAV (GPS) Rwy 26³
 VOR Rwy 8⁴
 VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI RNAV (GPS) Rwy 7
 VOR Rwy 7

Category D, 800-2½.

NAME ALTERNATE MINIMUMS

LIVINGSTON, MT

MISSION FIELD **VOR/DME-B¹**
VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²Categories A, B, 2200-2; Categories C,D,
2200-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI **ILS or LOC Rwy 22**
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2¼.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD **ILS or LOC/DME Rwy 14¹²**
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D,
900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D,
2300-3.

⁴Categories A, B, 1100-2; Categories C, D,
1100-3.

⁵Categories A, B, 1400-2; Category C, D
1400-3.

MISSOULA, MT

MISSOULA INTL **ILS Rwy 11¹**
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11², 800-2½
VOR/DME or GPS-A, 2000-3
VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D,
1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... **ILS or LOC Rwy 32R¹**
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

NAME ALTERNATE MINIMUMS

NEWCASTLE, WY

MONDELL FIELD **VOR or GPS Rwy 31**
NA except for operators with approved weather
reporting service.
Categories A,B, 900-2; Categories C,D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL **ILS or LOC Rwy 4¹**
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS, Categories A,B, 800-2; Category C, 900-
2¼, Category D, 1000-3. LOC, Category C,
900-2¼, Category D, 1000-3.

²Category C, 900-2¼; Category D, 1000-3.

³Categories A,B, 1100-2; Categories C,D,
1100-3.

⁴Categories C,D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG **RNAV (GPS) Rwy 7**
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL **ILS or LOC Rwy 17¹²**
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²³
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

³Category D, 800-2¼.

ONTARIO, OR

ONTARIO MUNI **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32

NA when local weather not available.

PASCO, WA

TRI-CITIES **ILS or LOC Rwy 21R¹²**
RNAV (GPS) Rwy 3L
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 21R
RNAV (GPS) Rwy 30
VOR Rwy 21R³
VOR/DME Rwy 30

NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D,
700-2¼. LOC, Category D, 800-2¼.

³Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD ILS or LOC Rwy 22¹
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI NDB Rwy 16¹
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY RNAV (GPS) Rwy 35
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND NDB Rwy 19¹
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

ROCK SPRINGS, WY

ROCK SPRINGS SWEETWATER
COUNTY VOR-B
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL RNAV (GPS)-B
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

MCNARY FIELD ILS or LOC Rwy 31¹²
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2¾; Category D, 800-2½. LOC, Category C, 800-2¾; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK VOR/DME or GPS-A
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL ILS Rwy 13R¹
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2¾.

SHERIDAN, WY

SHERIDAN
COUNTY ILS or LOC/DME Rwy 32
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2¾.

SIDNEY, MT

SIDNEY-RICHLAND MUNI NDB Rwy 1¹
NDB Rwy 19²

¹Category D, 800-2¾.

²Categories C, D, 800-2½.

SPOKANE, WA

FELTS FIELD ILS/DME Rwy 21R¹
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L³

¹Categories A, B, 1000-2; Category C, 1000-2¾.

²Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

³Categories A, B, 1000-2; Categories C, D, 1000-3

SPOKANE INTL ILS or LOC Rwy 3¹
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

¹ILS, Category D, 700-2.

²Category E, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI
DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.
Rwy 34, turn left. All aircraft climb direct CVO VOR/
DME and continue climb in CVO VOR/DME holding
pattern, (E, right turns, 261° inbound) to cross CVO
VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417'
per NM to 9000, or 2800-3 for climb in visual conditions.
Rwy 16, std. w/min. climb of 321' per NM to 10200, or
2800-3 for climb in visual conditions. **Rwy 22**, NA-
obstacles. **Rwy 34**, std. w/min. climb of 369' per NM to
9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing right
turn to 10200 via heading 130° and CPN VOR/DME R-
340 to CPN VOR/DME, continue climb-in-hold to 10200
(north, left turn, 166° inbound), or for climb in visual
conditions, cross Bowman Field Airport at or above 7700
then proceed via CPN R-309 to CPN VOR/DME,
continue climb-in-hold to 10200 (north, left turn, 166°
inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 16, climbing left turn to 10200 via heading 100° and
CPN VOR/DME R-335 to CPN VOR/DME, continue
climb-in-hold to 10200 (north, left turn, 166° inbound), or
for climb in visual conditions, cross Bowman Field
Airport at or above 7700 then proceed via CPN R-309 to
CPN VOR/DME, continue climb-in-hold to 10200 (north,
left turn, 166° inbound).

NOTE: **Rwy 16**, multiple trees beginning 865' from
departure end of runway, 243' left of centerline, up to 70'
AGL/5097' MSL. Rod on hangar 570' from departure
end of runway, 278' left of centerline, 54' AGL/5054'
MSL. Multiple trees beginning 787' from departure end
of runway, 165' right of centerline, up to 70' AGL/5098'
MSL. Multiple transmission lines beginning 4602' from
departure end of runway, 1664' right of centerline, 80'
AGL/5159' MSL. **Rwy 34**, multiple transmission lines
beginning 2242' from departure end of runway, 964' left
of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles.
DEPARTURE PROCEDURE: Use JATTS
DEPARTURE.

ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29,34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8,31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17**, NA. **Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8,13**, turn left.

Rwys 26,31,35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8,26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading 098° to 4600 before turning right.
NOTE: **Rwy 10L**, fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL (GOWEN FIELD)

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, turn left **Rwys 10L, 10R**, turn right. Climb on BOI R-214 within 20 NM to cross BOI VORTAC at or above MEA/MCA for direction of flight.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/ min. climb of 410' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 1**, Climbing right turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.
NOTES: **Rwy 1**, Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC.

Southbound aircraft: **Rwy 13**, climb straight ahead.

Rwy 31, turn right. All aircraft proceed via CZI R-319 to CZI VOR/DME.

BURLEY, ID

BURLEY MUNI

TAKE-OFF MINIMUMS: All runways, cross departure end of runway at or above 35' AGL.

DEPARTURE PROCEDURE: All runways, climb direct BURLEY (BYI) VOR/DME. Continue climb on R-305 within 10 miles to cross BYI VOR/DME: R-024 CW R-054 at or above 5500; R-055 CW R-240 at or above 8000; R-241 CW R-023 at or above 5900.

NOTE: **Rwy 2**, bridge 252' from departure end of runway, 513' left of centerline, 110' AGL/4195' MSL. Stack 2205' from departure end of runway, 857' right of centerline, 79' AGL/4236' MSL. Elevator 4092' from departure end of runway, 297' right of centerline, 133' AGL/4283' MSL. **Rwy 20**, antenna 523' from departure end of runway, 338' right of centerline, 43' AGL/4217' MSL. **Rwy 24**, tree 630' from departure end of runway, 521' right of centerline, 41' AGL/4215' MSL. Grain elevator 3106' from departure end of runway, 163' left of centerline, 137' AGL/4317' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR**BURNS MUNI**

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...

...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT**BERT MOONEY**

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL. **Rwy 29**, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID**CALDWELL INDUSTRIAL**

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY**CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)**

DEPARTURE PROCEDURE: **Rwys 3, 8, 12**, turn left.

All other runways, turn right. All aircraft climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA**CHEHALIS-CENTRALIA**

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY**CHEYENNE RGNL/JERRY OLSON FIELD**

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY**YELLOWSTONE RGNL**

TAKE-OFF MINIMUMS: **Rwy 4**, 1500-2 or std. with a min. climb of 250' per NM to 6800. **Rwy 22**, 1600-2 or std. with a min. climb of 340' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 4, 22**, turn left.

All aircraft climb direct COD VOR/DME. Climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above: COD R-350 CWR-170, 6000; or R-171 CWR-R-349, 11800.

COEUR D'ALENE, ID**COEUR D'ALENE-PAPPY BOYINGTON FLD**

TAKE-OFF MINIMUMS: **Rwy 5**, CAT A, B, 1700-2 or std. with a min. climb of 230' per NM to 4000. CAT C, D, 2600-2 or std. with a min. climb of 320' per NM to 5400.

DEPARTURE PROCEDURE: **Rwys 1, 5**, turn left, climb via COE R-005 to 5400, reverse course, continue climb direct COE VOR. **Rwy 19**, turn right. **Rwy 23**, turn left, climb via COE R-232 to 5000, reverse course, continue climb direct COE VOR.

COLSTRIP, MT**COLSTRIP (M46)****AMDT 2 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 6** use CISP (RNAV) DEPARTURE. **Rwy 24**, use CONUK (RNAV) DEPARTURE.

CONRAD, MT**CONRAD**

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR**CORVALLIS MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY**NORTH BIG HORN COUNTY**

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA**DEER PARK**

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 360' per NM to 5600.

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading; **Rwy 22**, climbing left turn to heading 130°; **Rwys 4, 34**, climbing right turn to heading 210°; **All aircraft** intercept and continue climb via the 170° bearing from DPY NDB to intercept GEG R-006 to GEG VORTAC.

DILLON, MT**DILLON**

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwesterly bound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY**CONVERSE COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CWR R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CWR R-199 9600; R-200 CWR R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID**DRIGGS-REED MEMORIAL (DIJ)****AMDT 2 08157 (FAA)**

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA**ORCAS ISLAND (ORS)****AMDT 1 09351 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENSBURG, WA**BOWERS FIELD**

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA**EPHRATA MUNI (EPH)****AMDT 3 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles. DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn...**Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.

Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing: FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER, 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA

..... **Rwy 15**, 300-1***Rwy 33**, 300-1**

*Or standard with minimum climb of 430/NM to 500.
**Or standard with minimum climb of 380/NM to 600.

Rwy 15 climb runway heading to 700 then climbing left turn direct GR LOM. **Rwy 33** climb runway heading direct GR LOM. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GR LOM climb on course. All others continue climb in GR holding pattern (Hold NW, RT, 147° inbound) to cross GR LOM at or above: 071° CW 134° bearing from GR LOM, 8500'; 261° CW 329° bearing from GR LOM, 1500.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/ min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°.

All aircraft continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/ min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1¾ or std. w/ min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence... **Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence... **Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence... **Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)

AMDT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.

DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading. **All aircraft** climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2¾ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)

AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1¾ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 1200-2 or std. with a min. climb of 320' per NM to 1300.

DEPARTURE PROCEDURE: Departure procedure limited to CAT A,B aircraft. **Rwy 30**, climb straight ahead to 1500 then climbing right turn direct LSO NDB. Continue climb in holding pattern (N, right turns, 171° inbound) to cross LSO NDB at or above 3000 direct BTG VORTAC or MEA for route of flight.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4,10,22,28**, NA- Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/ DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/ DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400.

Rwy 32, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14,25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800.

Rwy 30, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12,16**, climbing left turn direct LGD NDB, thence; **Rwys 30,34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKVR-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKVR-148 then via LKVR-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12,21**, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.
DEPARTURE PROCEDURE: **Rwy 22**, turn left.
All aircraft climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12, 900-2** or std. with a min. climb of 220' per NM to 6200.
DEPARTURE PROCEDURE: **Rwys 2, 30** turn left. **Rwys 7, 12, 20**, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.
Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.
NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.
Rwy 15, use EYSE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-
Environmental.
DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

ORIG-A 09043 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 298' per NM to 3900 or 1100-2 ½ for climb in visual conditions. **Rwy 22**, std. w/ a min. climb of 281' per NM to 3900 or 1100-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...
Rwy 22, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...
... for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.
DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD AFB (KTCM)

TACOMA, WA 09127

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windscock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/ 3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/ 3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/ 3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/ 3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11, 70'** AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400.
Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. **All aircraft** climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/ 4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/ 4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1. DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL. **Rwy 29**, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL. **Rwy 28R**, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. **All aircraft** climb via BTGR-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. **All aircraft** climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 28, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.

DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climbing heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thence ...
...Climb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/ min. climb of 310' per NM to 700. **Rwy 19**, std. w/ min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/ min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence... **Rwy 8**, climbing right turn direct PSC VOR/DME, thence... **Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence... **Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence...
...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL

DEPARTURE PROCEDURE: Aircraft departing RIW R-280 CW R-170 climb on course. All others climb to 6600, then continue climb direct RIW VOR/DME to cross RIW VOR/DME at or above 7500 before proceeding on course.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY

DEPARTURE PROCEDURE: Climb direct OCS VORTAC. Aircraft departing OCS R-205 CW R-170 climb on course. All others climb in the OCS holding pattern (E, right turns, 260° inbound) to cross OCS VORTAC at or above 7300.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL. **Rwy 13R**, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL.

Rwy 11, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
...1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
...climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD

TAKE-OFF MINIMUMS: **Rwys 3L, 3R**, std. w/ min. climb of 400' per NM to 3600, or 1600-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 360' per NM to 3100, or 1600-3 for climb in visual conditions. **Rwy 21R**, std. w/ min climb of 375' per NM to 3100, or 1600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course. **Rwys 21L, 21R**, climb to 2800, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course.

NOTE: **Rwy 3L**, multiple trees beginning 5000' from departure end of runway, 530' left of centerline, up to 104' AGL/2513' MSL. Tree 1854' from departure end of runway, 773' right of centerline, 54' AGL/2030' MSL, tree 2365' from departure end of runway, 798' right of centerline, 61' AGL/2037' MSL. **Rwy 3R**, multiple trees beginning 5016' from departure end of runway, 1033' left of centerline, up to 104' AGL/2529' MSL, pole 2.5 NM from departure end of runway, 2059' left of centerline, 62' AGL/2454' MSL, hangar 92' from departure end of runway, 341' right of centerline, 5' AGL/1967' MSL, NDB 925' from departure end of runway, 270' right of centerline, 25' AGL/1987' MSL, multiple trees beginning 1870' from departure end of runway, 271' right of centerline, up to 128' AGL/3560' MSL. **Rwy 21L**, pole 316' from departure end of runway, 302' left of centerline, 33' AGL/1992' MSL, tree 926' from departure end of runway, 362' left of centerline, 50' AGL/2006' MSL, building 1057' from departure end of runway, 158' left of centerline, 19' AGL/1975' MSL, building 1061' from departure end of runway, 110' left of centerline, 19' AGL/1975' MSL. Elevator 4080' from departure end of runway, 598' left of centerline, 134' AGL/2080' MSL. **Rwy 21R**, hangar 204' from departure end of runway, 496' left of centerline, 13' AGL/1969' MSL, pole 659' from departure end of runway, 404' left of centerline, 26' AGL/1979' MSL, building, 946' from departure end of runway, 230' left of centerline, 24' AGL/1973' MSL, pole 1399' from departure end of runway, 2' left of centerline, 33' AGL/1982' MSL, elevator 2655' from departure end of runway, 1097' left of centerline, 134' AGL/2080' MSL, tree 189' from departure end of runway, 511' right of centerline, 46' AGL/1979' MSL, tree 480' from departure end of runway, 404' right of centerline, 43' AGL/1979' MSL, pole 1252' from departure end of runway, 55' right of centerline, 29' AGL/1975' MSL, pole 1427' from departure end of runway, 13' right of centerline, 33' AGL/1982' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSO R-163. **Rwy 30**, do not exceed 210 knots until established on MSO R-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSO R-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500. DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26**, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ... for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900. **Rwys 25, 30**, CAT A, B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C, D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-200 7400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEEZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JEEZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL. **Rwy 26**, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25:** Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25:** Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL**

RWYS: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7:** Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28,** NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4,** NA. **Rwy 9,** 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27,** 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4,** NA. **Rwys 9, 22, 27,** Use ZILLA DEPARTURE PROCEDURE.

VOR/DME CPN 111.6 Chan 53	APP CRS 307°	Rwy Idg TDZE Apt Elev 5030
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VOR/DME or GPS-A

ANACONDA/ BOWMAN FIELD (3U3)

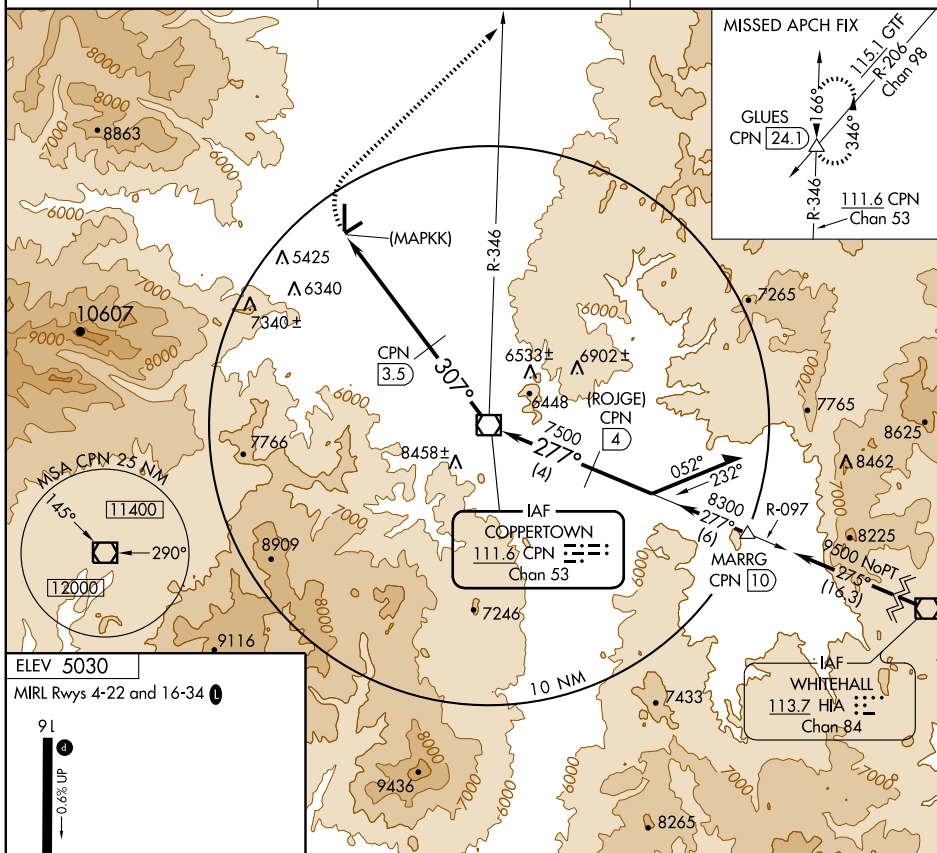
T	Use Butte (BTM) altimeter setting; when not received,
A NA	procedure NA.

MISSED APPROACH: Climbing right turn to 9200 via heading 030° to intercept CPN R-346 to GLUES and hold.

AWOS-A
122.8 L

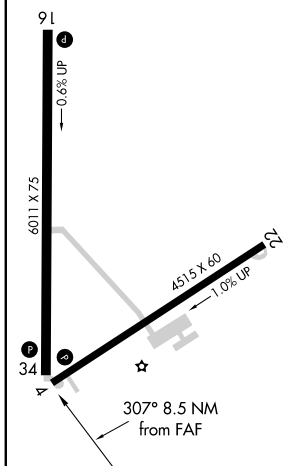
SALT LAKE CENTER
132.4 338.3

UNICOM
122.8 (CTAF) **L**



ELEV 5030

MIRL Rwy 4-22 and 16-34



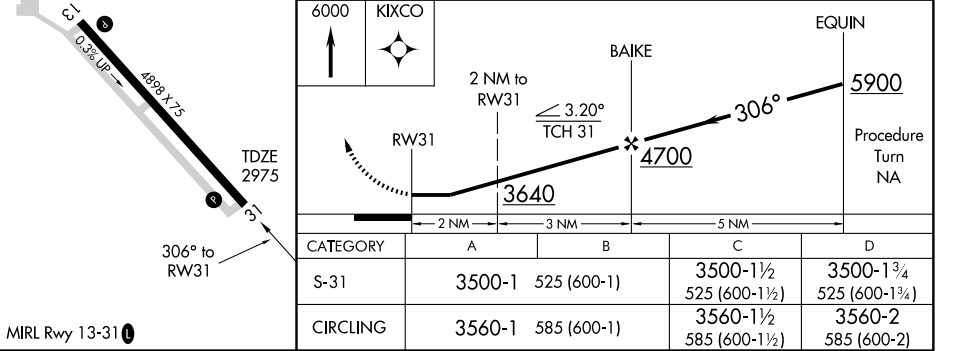
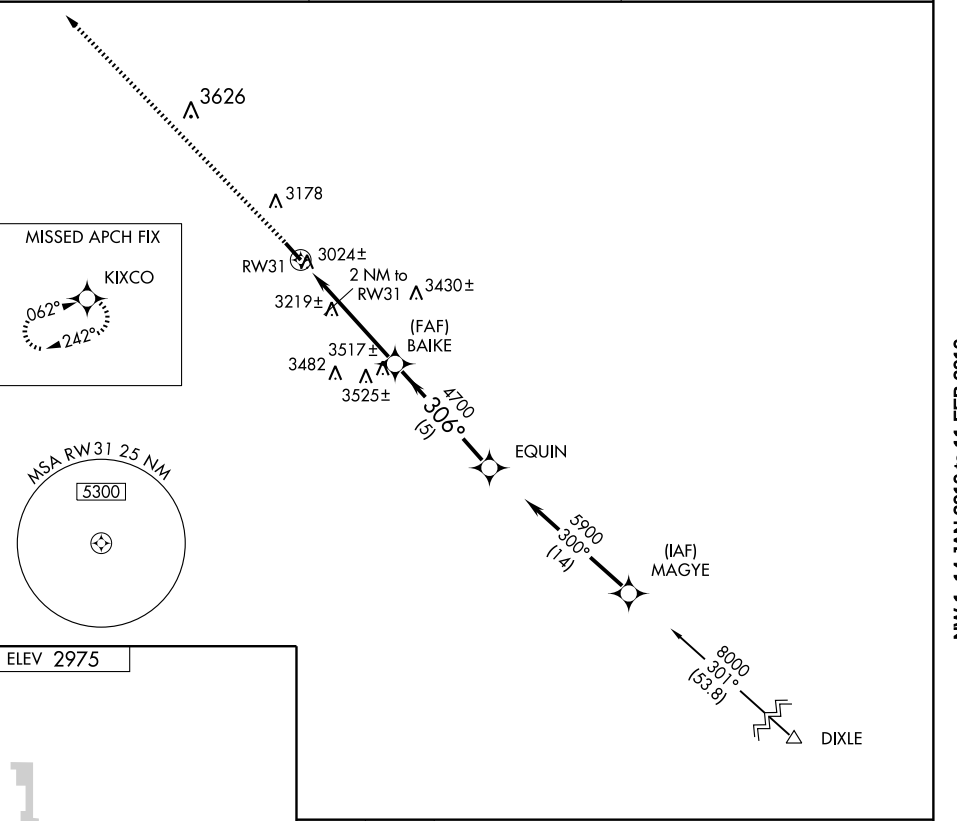
	CPN R-346 <u>111.6</u>	GLUES △	VOR/DME 			
(MAPKK) CPN <u>8.5</u>	CPN <u>3.5</u>	(ROJGE) CPN <u>4</u>				
5 NM			3.5 NM		4 NM	
CATEGORY	A	B	C	D		
CIRCLING	6140-1¼ 1110 (1200-1¼)	6300-1½ 1270 (1300-1½)	6300-3 1270 (1300-3)	6540-3 1510 (1600-3)		

▼

▲ NA

MISSED APPROACH: Climb to 6000 direct KIXCO WP and hold.

ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9
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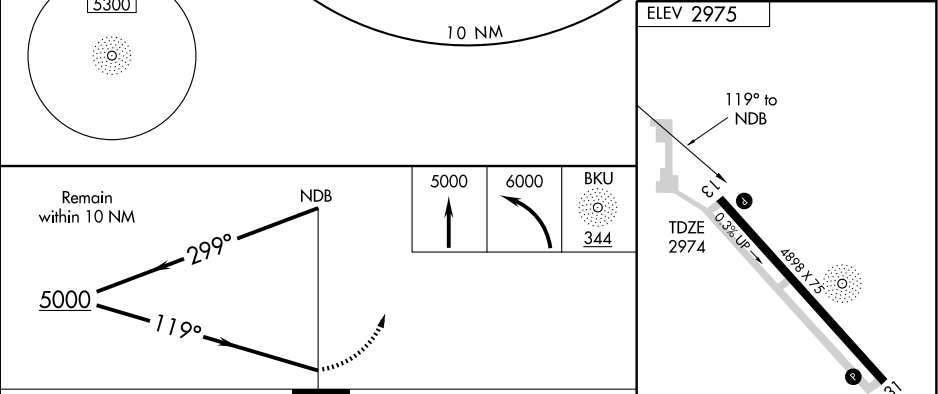
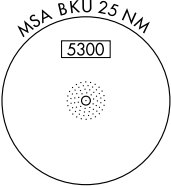
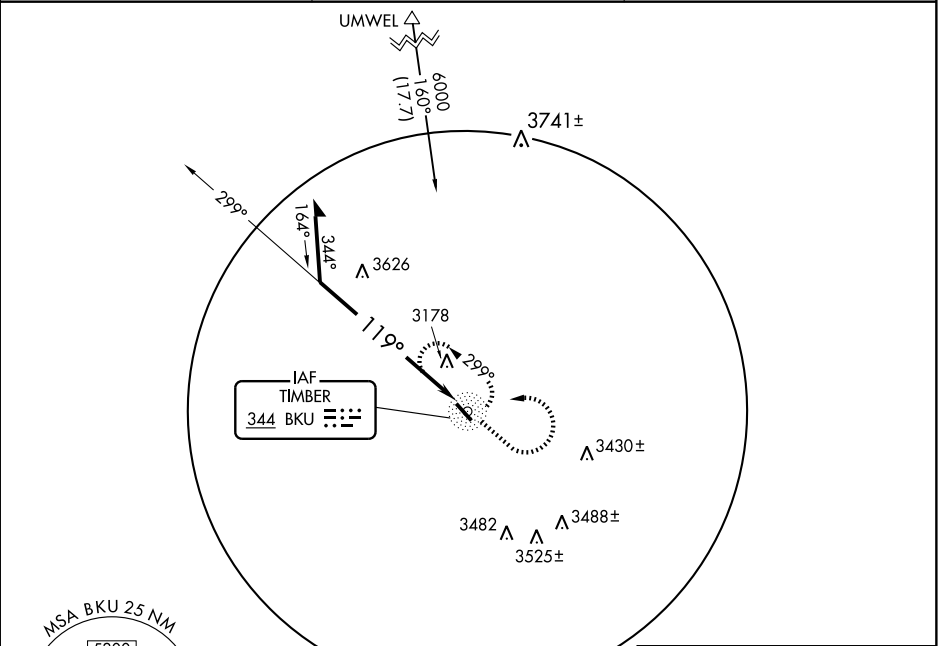


NDB BKU 344	APP CRS 119°	Rwy Idg TDZE Apt Elev	4898 2974 2975
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NDB RWY 13
BAKER MUNI (BHK)

 	MISSED APPROACH: Climb to 5000, then climbing left turn to 6000 direct BKU NDB and hold.
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ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9
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CATEGORY	A	B	C	D
S-13	3980-1 ¼ 1006 (1100-1 ¼)	3980-1 ½ 1006 (1100-1 ½)	3980-3	1006 (1100-3)
CIRCLING	3980-1 ¼ 1005 (1100-1 ¼)	3980-1 ½ 1005 (1100-1 ½)	3980-3	1005 (1100-3)

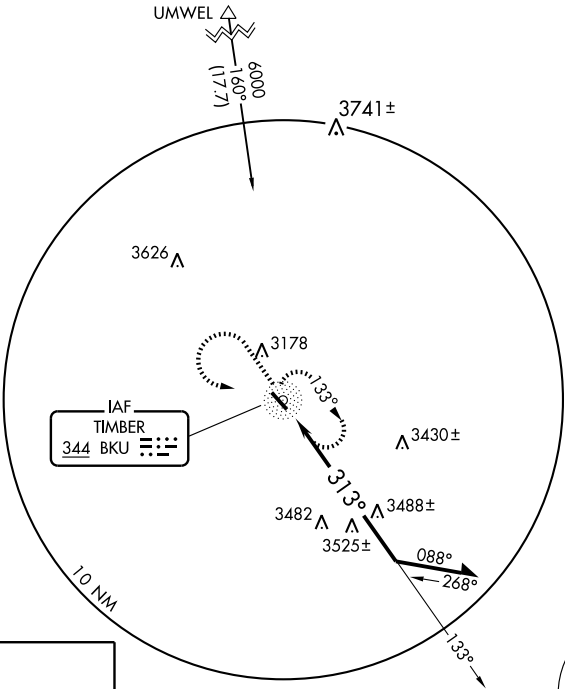
MIRL Rwy 13-31

NDB RWY 31
BAKER MUNI (BHK)

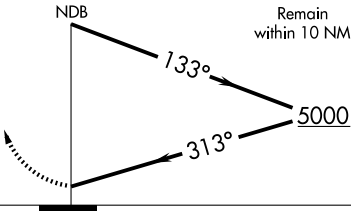
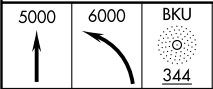
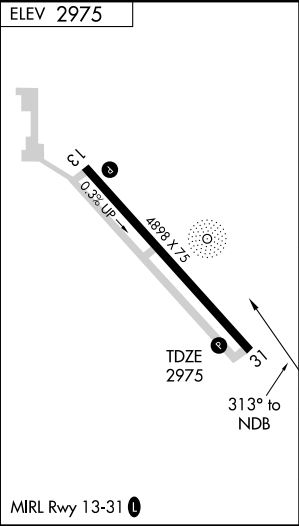
NDB BKU 344	APP CRS 313°	Rwy Idg TDZE Apt Elev	4898 2975 2975
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MISSED APPROACH: Climb to 5000, then climbing left turn to 6000 direct BKU NDB and hold.

ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9
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ELEV 2975



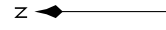
CATEGORY	A	B	C	D
S-31	3880-1 ¼ 905 (1000-1 ¼)		3880-2 ¾ 905 (1000-2 ¾)	3880-3 905 (1000-3)
CIRCLING	3880-1 ¼ 905 (1000-1 ¼)		3880-2 ¾ 905 (1000-2 ¾)	3880-3 905 (1000-3)

BILLINGS TWO DEPARTURE

SL-48 (FAA)

BILLINGS LOGAN INTL (BIL.)
BILLINGS, MONTANA

ATS 126.3
CLNC DEL 121.9
GND CON 121.9
BILLINGS DEP CON 120.5



NOTE: Takeoff on Runways 7, 10R, and 10L requires a minimum climb of 260 feet per NM to 4500 feet.

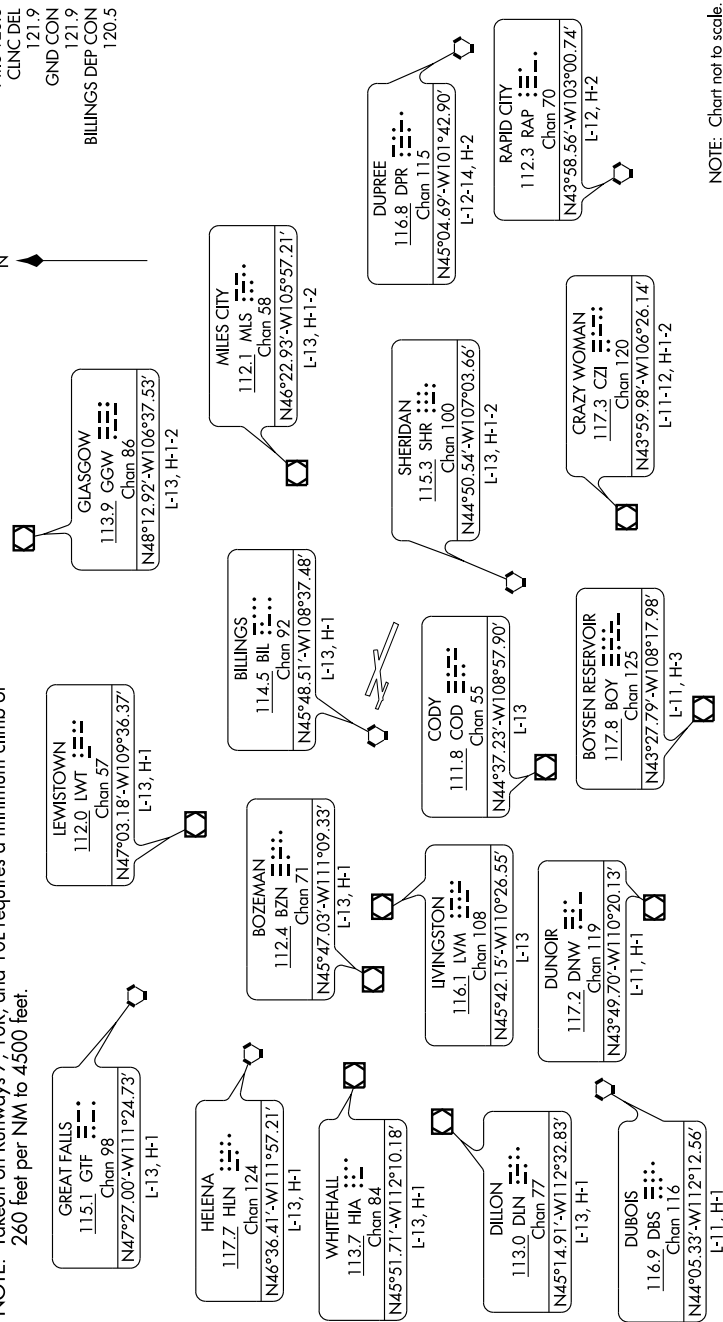
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

ALL RUNWAYS: Fly assigned heading for vectors to assigned fix/route. Maintain 12,000 feet or assigned lower altitude. Expect clearance to filed altitude/flight level within 40 NM of BIL VORTAC.

LOST COMMUNICATIONS: If no transmissions are received for 1 minute after departure, fly last assigned heading until reaching 7000 feet. Proceed direct BIL VORTAC, then via last routing cleared and climb to filed altitude.

NW-1. 14 JAN 2010 to 11 FEB 2010



LOCALIZER I-BIL
110.3

 APCH CRS
098°

 Rwy Idg **10,518**
 TDZE **3584**
 Arpt Elev **3652**

JAL-48 [USAF]

BILLINGS LOGAN INTL (KBIL)



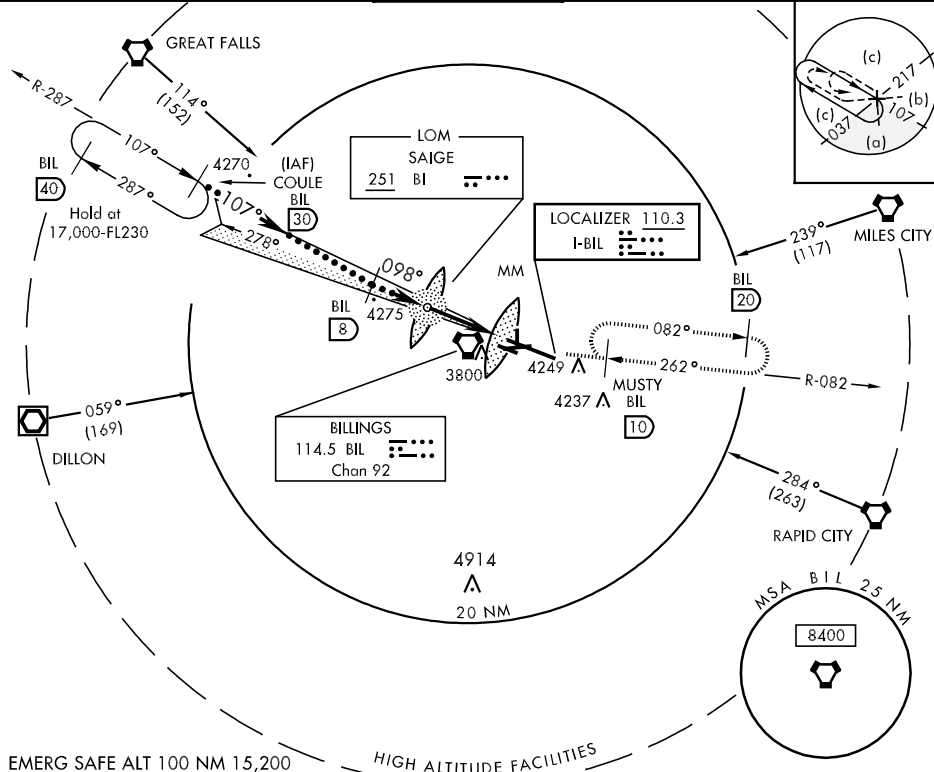
MISSED APPROACH: Climb to 5700 via BIL R-082 to MUSTY/10 DME and hold.

 ATIS
126.3

 BILLINGS APP CON
120.5 284.6

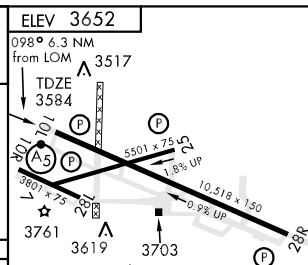
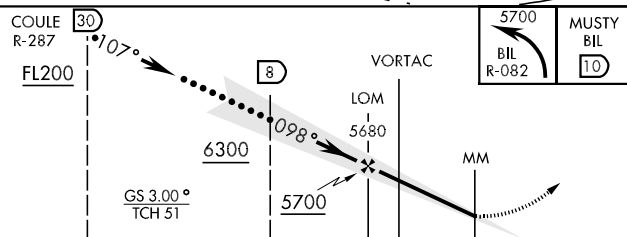
 BILLINGS TOWER
127.2 257.8

 GND CON
121.9

 CLNC DEL
121.9


EMERG SAFE ALT 100 NM 15,200

HIGH ALTITUDE FACILITIES



CATEGORY	C	D	E
S-ILS 10L	3784/24	200 (200-1/2)	
S-LOC 10L	4100/50 516 (500-1)	4100/60 516 (500-1 1/4)	
CIRCLING	4180-1 1/2 528 (600-1 1/2)	4220-2 568 (600-2)	4580-3 928 (1000-3)

ELEV 3652	098° 6.3 NM from LOM	TDZE 3584
REIL Rwy 25 and 28R	HIRL Rwy 10L-28R	MIRL Rwy 7-25 and 10R-28L
FAF to MAP 6.3 NM		
Knots	120	140 160 180 200
Min:Sec	3:09	2:42 2:22 2:06 1:53

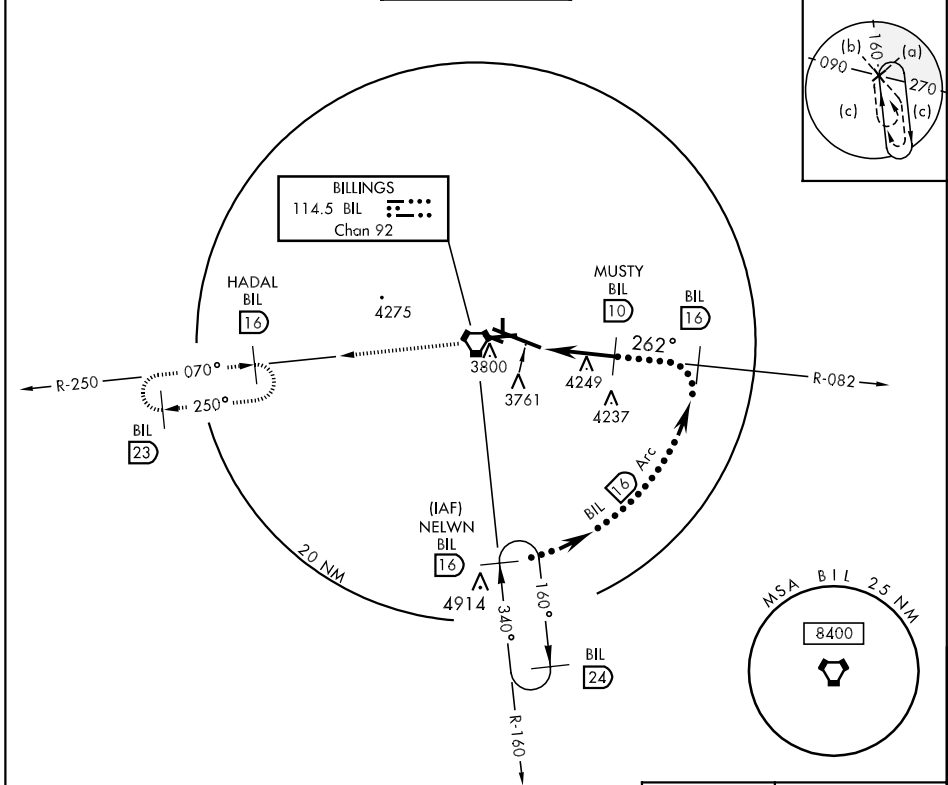
BILLINGS 114.5 Chan 92	APCH CRS 262°	Rwy Idg 10,518 TDZE 3517 Arpt Elev 3652
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JAL-48 [USAF]

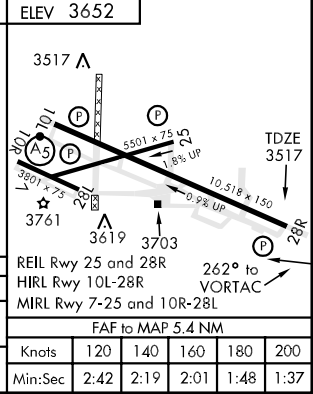
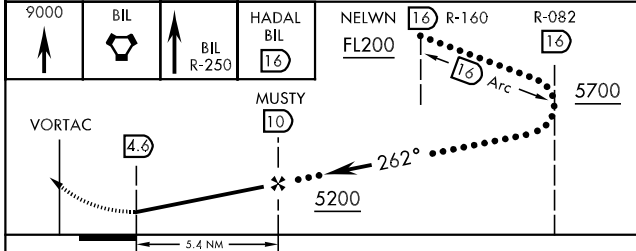
BILLINGS LOGAN INTL (KBIL)

▼ MISSED APPROACH: Climb to 9000 direct BIL VORTAC then via R-250 to HADAL/16 DME and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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EMERG SAFE ALT 100 NM 15,200



CATEGORY	C	D	E
S-28R	3940-1 1/4 423 (300-1 1/4)		3940-1 1/2 423 (300-1 1/2)
CIRCLING	4180-1 1/2 528 (600-1 1/2)	4220-2 568 (600-2)	4580-3 928 (1000-3)

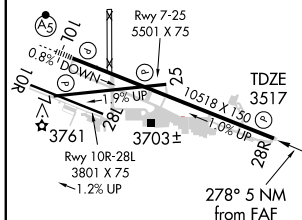
NW-1, 14 JAN 2010 to 11 FEB 2010

MISSED APPROACH: Climb to 4300 then climbing left turn to 6000 direct BIL VORTAC and hold.

CLNC DEL
121.9

NW-1. 14 JAN 2010 to 11 FEB 2010

D



4300 6000 BIL 114.5

VGSI and ILS glidepath not coincident.

Procedure Turn NA

SUTLE I-BMO 11.9

ZELAR I-BMO 6.9

I-BMO 1.9

5160

278°

6000

5200

GS 3.00° TCH 56

5 NM 5 NM

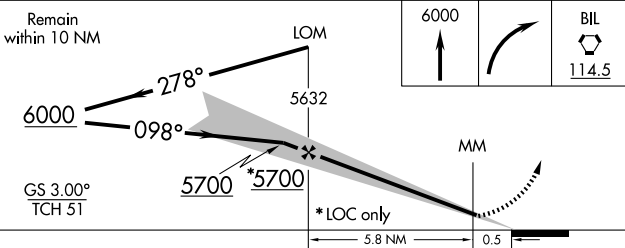
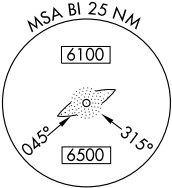
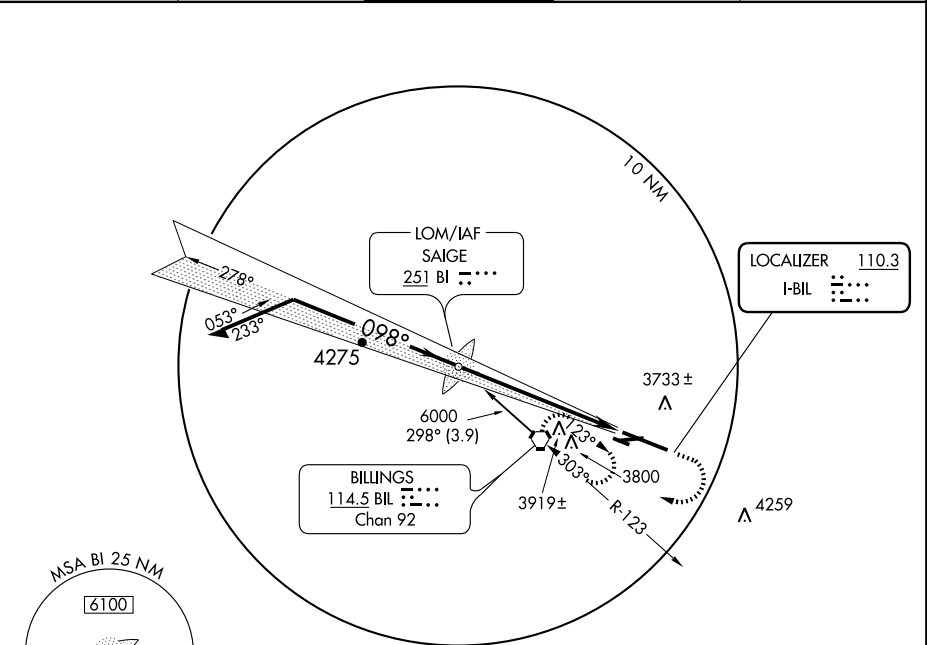
CATEGORY	A	B	C	D
S-ILS 28R	3767-1 250 (200-1)			
S-LOC 28R	4000-1 483 (400-1)		4000-1½ 483 (400-1½)	4000-1½ 483 (400-1½)
CIRCLING	4160-1 508 (600-1)	4180-1 528 (600-1)	4180-1½ 528 (600-1½)	4220-2 568 (600-2)

REIL Rwys 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwys 7-25 and 10R-28L

LOC	I-BIL	APP CRS	Rwy Idg	10518
110.3		098°	TDZE	3584
			Apt Elev	3652

ILS or LOC RWY 10L
BILLINGS LOGAN INTL (BIL)

# RVR 1800 authorized with the use of FD or AP or HUD to DA.		MALSR 	MISSED APPROACH: Climb to 6000, then right turn direct BIL VORTAC and hold.	
ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9



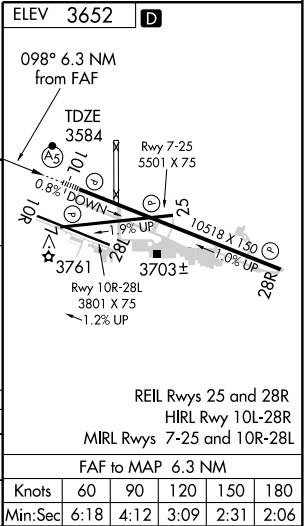
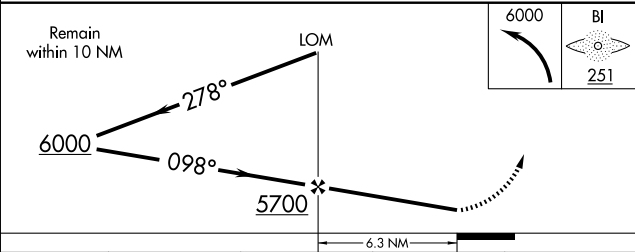
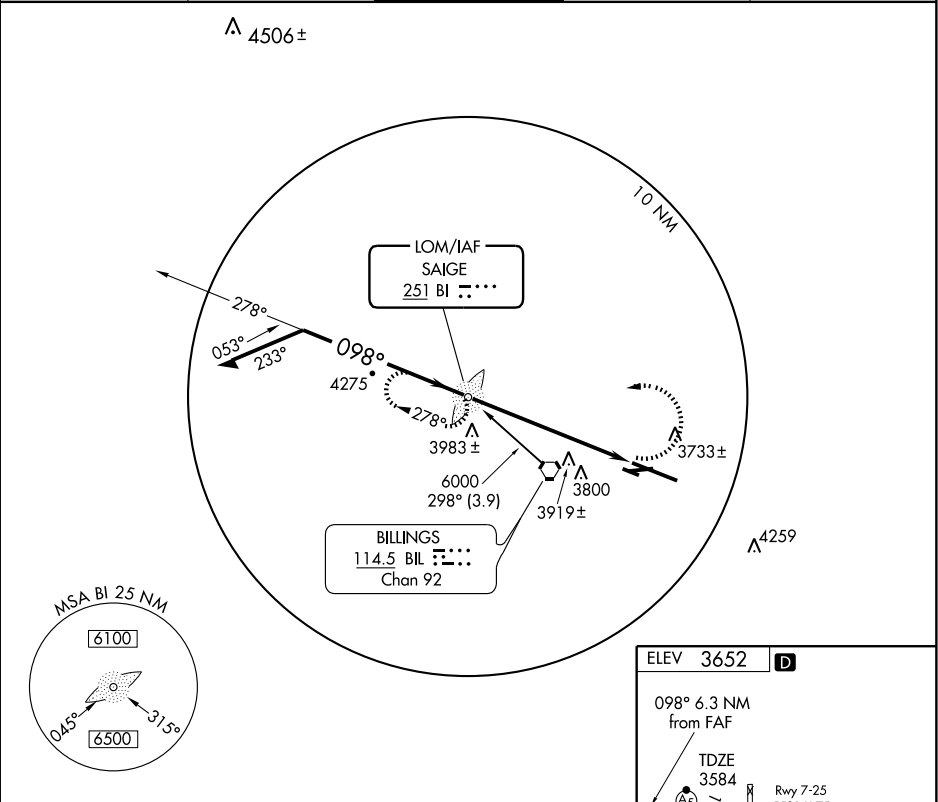
ELEV 3652	D
098° 6.3 NM from FAF	
TDZE 3584	Rwy 7-25 5501 X 75
REIL Rwy 25 and 28R HIRL Rwy 10L-28R MIRL Rwy 7-25 and 10R-28L	
FAF to MAP 6.3 NM	
Knots	60 90 120 150 180
Min:Sec	6:18 4:12 3:09 2:31 2:06

LOM BI 251	APP CRS 098°	Rwy Idg TDZE Apt Elev	10518 3584 3652
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NDB RWY 10L
BILLINGS LOGAN INTL (BIL)

	MALSR 	MISSED APPROACH: Climbing left turn to 6000 direct Saige LOM and hold.
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ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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CATEGORY	A	B	C	D
S-10L	4300/40 716 (700-¾)		4300-1½ 716 (700-1½)	4300-2 716 (700-2)
CIRCLING	4300-1 648 (700-1)		4300-2 648 (700-2)	4300-2¼ 648 (700-2¼)

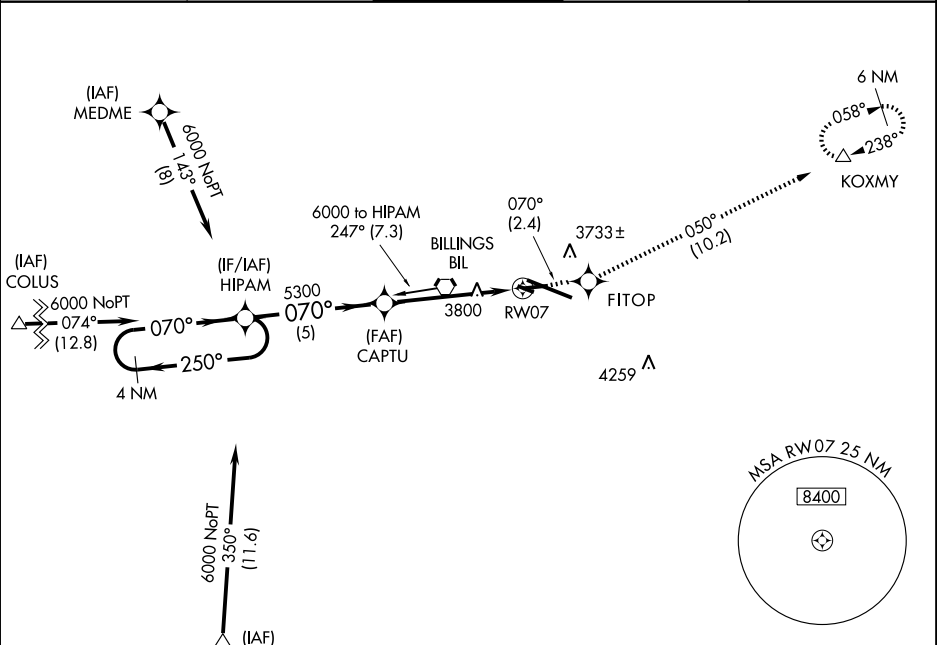
RNAV (GPS) RWY 7
BILLINGS LOGAN INTL (BIL)

APP CRS	Rwy Idg	5501
070°	TDZE	3636
	Apt Elev	3652

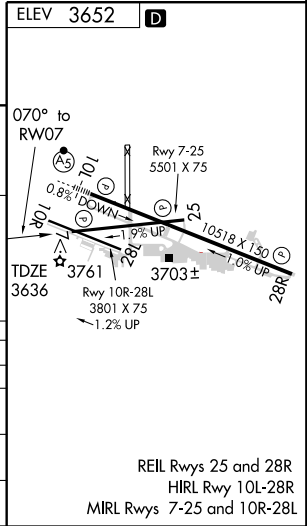
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (105°F).
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 6000 via 070° course to FITOP, then left turn via 050° course to KOXMY and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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ELEV 3652				
D				
5148 ±				
VGSi and descent angles not coincident.				
4 NM Holding Pattern				
6000 ← 250° → 070° → 070° → 5300				
GS 3.00° TCH 55				
5 NM 3.3 NM 1.7 NM				
CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	4209-2 573 (600-2)			
LNAV MDA	4220-1 584 (600-1)	4220-1 1/2 584 (600-1 1/2)	4220-1 3/4 584 (600-1 3/4)	
CIRCLING	4220-1 568 (600-1)	4220-1 1/2 568 (600-1 1/2)	4220-2 568 (600-2)	



Baro-VNAV NA below -22°C (-7°F).
DME/DME RNP-0.3 NA.
Inoperative table does not apply to LNAV/VNAV.
For inoperative MALSR increase LPV visibility to RVR 6000 all Cats.

MALSR

MISSED APPROACH: Climb to 6000 direct POXRI and via 041° track to KOXMY and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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VGSI and RNAV glidepath not coincident.				
5 NM Holding Pattern		WIBON	6000	POXRI
5800 ← 278°		→ 098°	UTETE	→ 098°
GS 3.00° TCH 51		5300	*1.5 NM to RW10L	RW10L
		6 NM	3.7 NM	1.5 NM
		*LNAV only		
CATEGORY	A	B	C	D
LPV DA	3950/40 366 (300-¾)			
LNAV/VNAV DA	4200-2¼ 616 (600-2¼)			
LNAV MDA	4120/24	536 (500-½)	4120/50 536 (500-1)	4120/60 536 (500-1¼)
CIRCLING	4200-2¼ 548 (600-2¼)			4220-2¼ 568 (600-2¼)

ELEV 3652 **D**

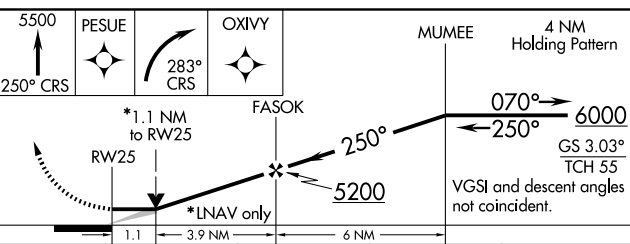
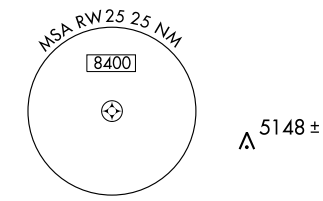
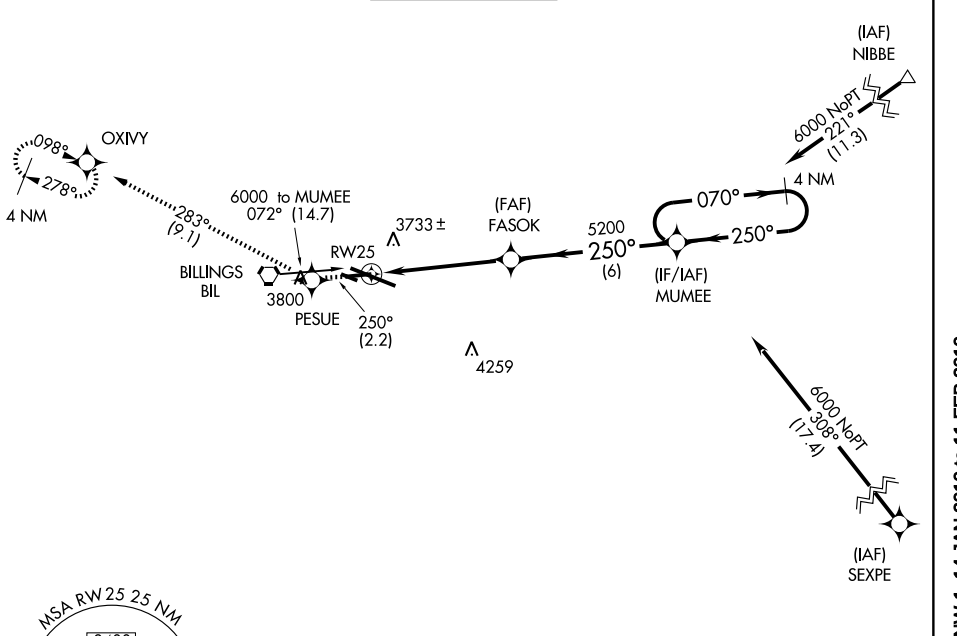
REIL Rwy 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L

NW-1, 14 JAN 2010 to 11 FEB 2010

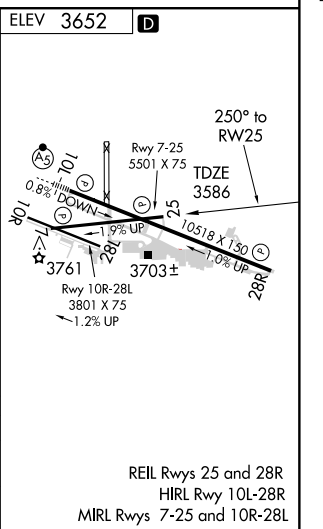
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 5500 via 250° course to PESUE WP then right turn via 283° course to OXIVY and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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CATEGORY	A	B	C	D
LNAV MDA	4020-1	434 (400-1)	4020-1½ 434 (400-1½)	4020-1½ 434 (400-1½)
CIRCLING	4160-1½ 508 (600-1½)	4180-1½ 528 (600-1½)	4180-1½ 528 (600-1½)	4220-2 568 (600-2)



REIL Rwy 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L

AL-48 (FAA)

VORTAC BIL 114.5 Chan 92	APP CRS 262°	Rwy Idg 10518 TDZE 3517 Apt Elev 3652
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VOR/DME RWY 28R
BILLINGS LOGAN INTL (BIL)



MISSED APPROACH: Climb to 6000 direct BIL VORTAC and hold.

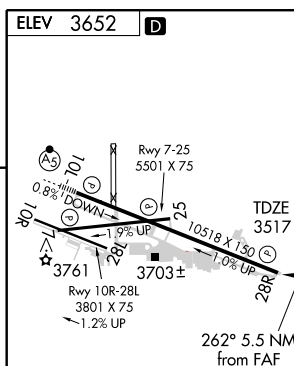
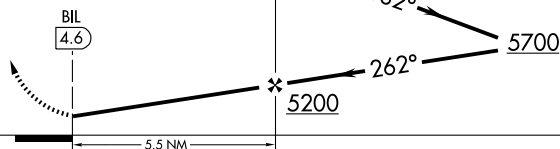
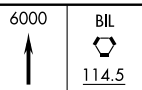
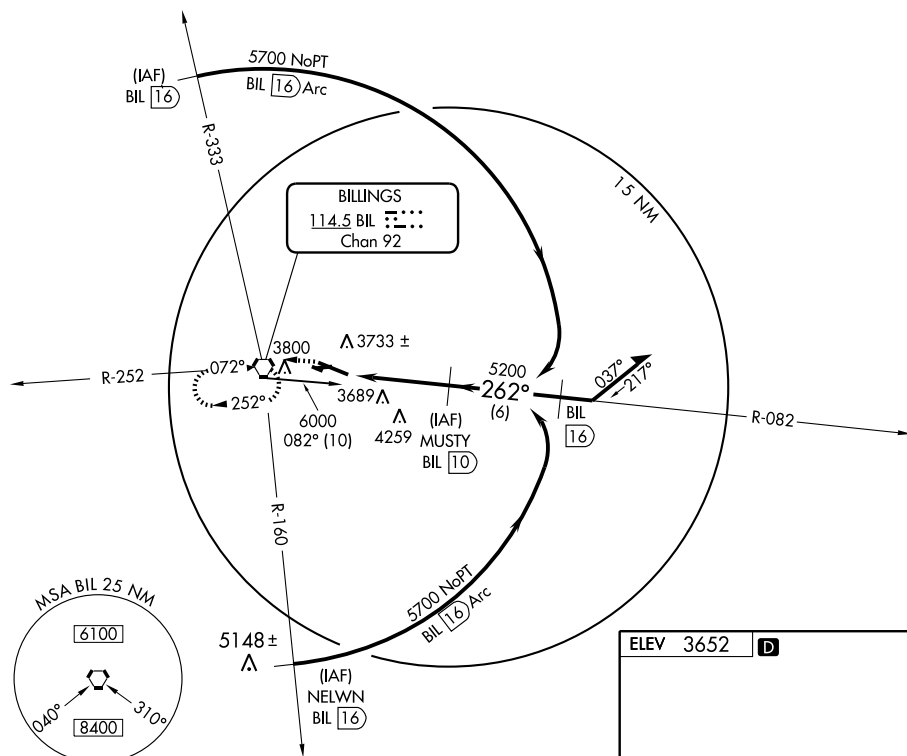
ATIS
126.3

BILLINGS APP CON
120.5 284.6

BILLINGS TOWER
127.2 257.8

GND CON
121.9

CLNC DEL
121.9



CATEGORY	A	B	C	D
S-28R	4040-1 523 (400-1)		4040-1½ 523 (400-1½)	4040-1¾ 523 (400-1¾)
CIRCLING	4160-1 508 (600-1)	4180-1 528 (600-1)	4180-1½ 528 (600-1½)	4220-2 568 (600-2)

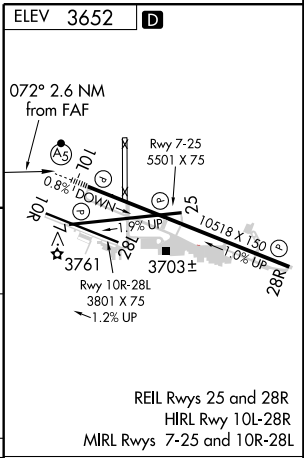
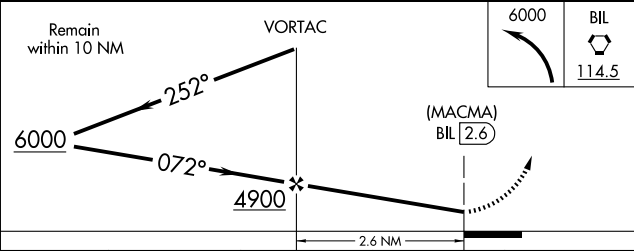
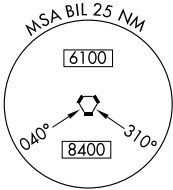
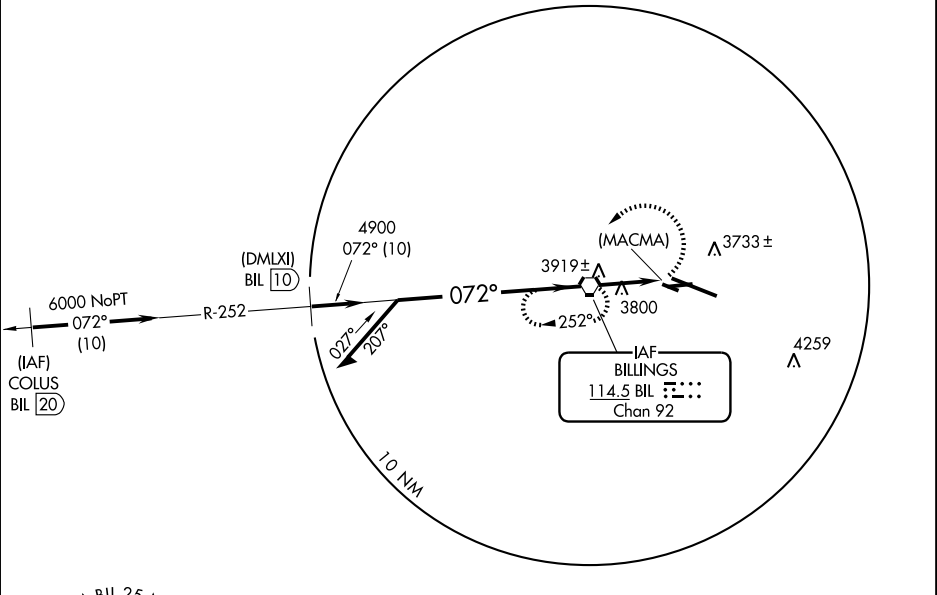
REIL Rwy 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L

NW-1. 14 JAN 2010 to 11 FEB 2010

VORTAC BIL	APP CRS	Rwy Idg TDZE	N/A
114.5	072°		N/A
Chan 92		Apt Elev	3652

VOR or GPS-A
BILLINGS LOGAN INTL (BIL)

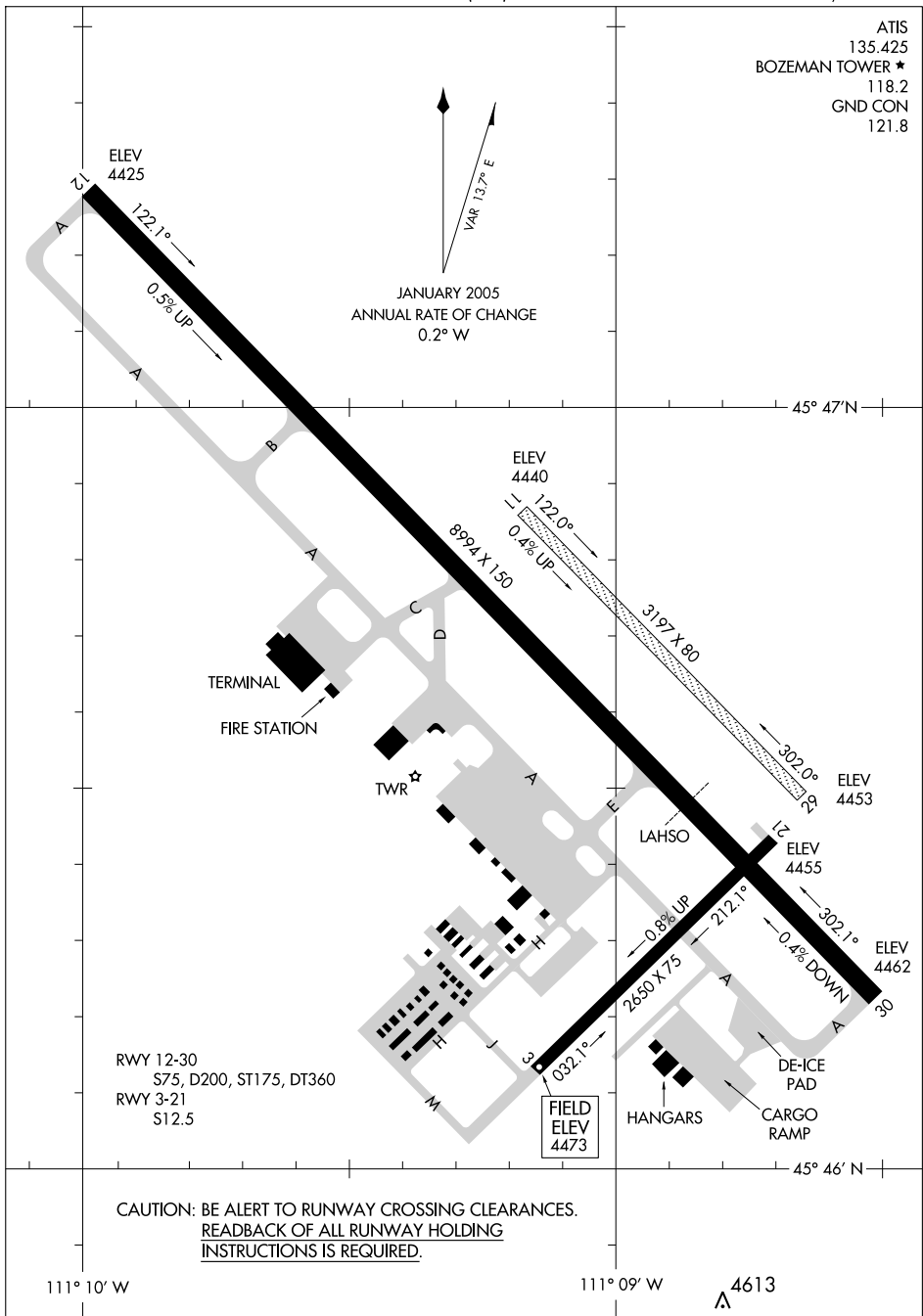
T		MISSED APPROACH: Climbing left turn to 6000 direct BIL VORTAC and hold.		
ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9



CATEGORY	A	B	C	D	FAF to MAP 2.6 NM					
CIRCLING	4180-1 528 (600-1)		4180-1½ 528 (600-1½)	4220-2 568 (600-2)	Knots	60	90	120	150	180
					Min:Sec	2:36	1:44	1:18	1:02	0:52

AIRPORT DIAGRAM

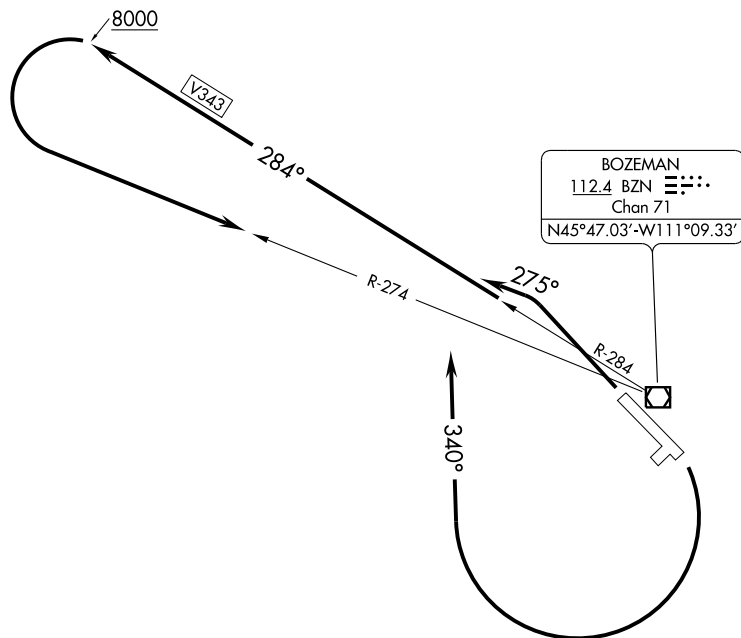
AL-59 (FAA)

BOZEMAN/GALLATIN FIELD (BZN)
BOZEMAN, MONTANA

NW-1. 14 JAN 2010 to 11 FEB 2010

BOZEMAN ONE DEPARTURE (OBSTACLE)

ATIS 135.425
GND CON
121.8
BOZEMAN TOWER ★
118.2 (CTAF)
SALT LAKE CITY CENTER
132.4 338.3



TAKE-OFF MINIMUMS

Rwy 3, 21: NA - ATC.

Rwy 12, 30: Standard

TAKE-OFF OBSTACLE NOTES

Rwy 30: Pole 636' from DER, 622' left of centerline, 62' AGL/4452' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn heading 340° to intercept BZN R-284 outbound to 8000. Aircraft departing westbound via V343 climb on course, all others continue climbing left turn to intercept BZN R-274 to BZN VOR/DME, cross BZN VOR/DME at or above MCA or MEA for route of flight.

TAKE-OFF RUNWAY 30: Climbing left turn heading 275° to intercept BZN R-284 outbound to 8000. Aircraft departing westbound via V343 climb on course, all others continue climbing left turn to intercept BZN R-274 to BZN VOR/DME, cross BZN VOR/DME at or above MCA or MEA for route of flight.

LOC I-BZN	APP CRS	Rwy Idg	8994
109.3	118°	TDZE	4439
		Apt Elev	4474

BOZEMAN/GALLATIN FIELD (BZN)

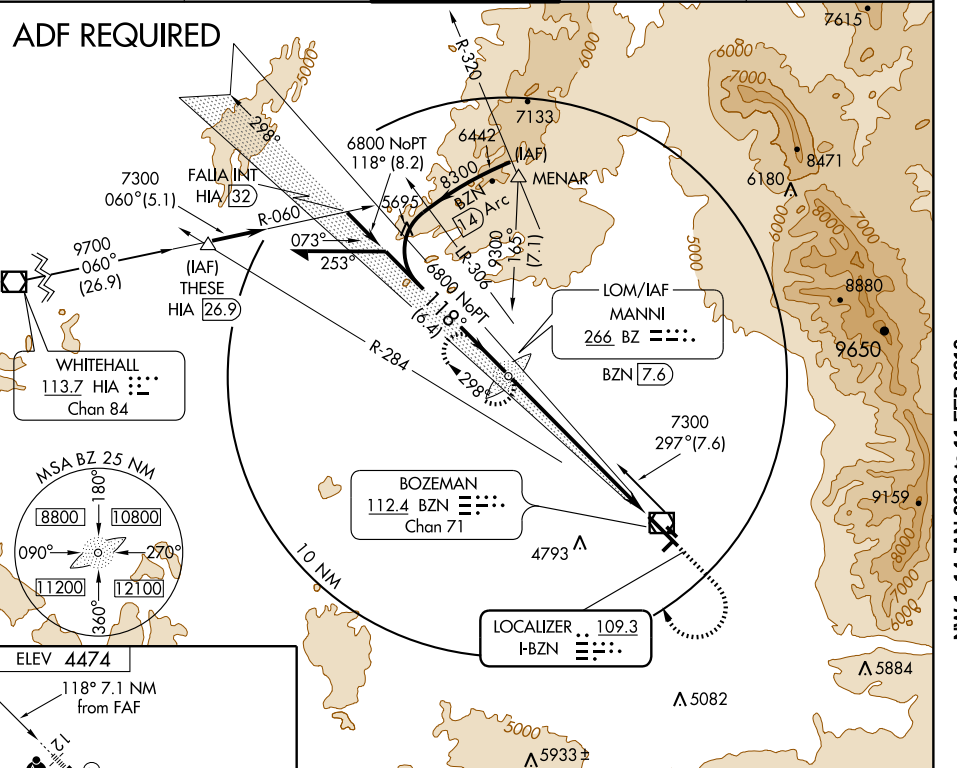
⚠

Increase S-LOC 12 Cat D visibility ¼ mile for inoperative MALSR.

MALSR

MISSED APPROACH: Climb to 5000, then climbing right turn to 8000 direct BZ LOM and hold.

ATIS 135.425	SALT LAKE CENTER 132.4 338.3	BOZEMAN TOWER★ 118.2 (CTAF) 0	GND CON 121.8	UNICOM 122.95
-----------------	---------------------------------	----------------------------------	------------------	------------------



ELEV 4474

118° 7.1 NM from FAF

TDZE 4439

4609 TWR

REIL Rwy 30

HIRL Rwy 12-30

FAF to MAP 7.1 NM

Knots	60	90	120	150	180
Min:Sec	7:06	4:44	3:33	2:50	2:22

Remain within 10 NM

7300

118°

298°

6800

GS 3.00° TCH 53

LOM BZN 7.6

6779

7.1 NM

5000

8000

BZ 266

BZ 0.5

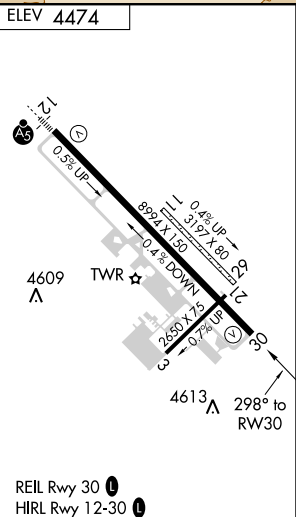
CATEGORY	A	B	C	D
S-ILS 12	4650-½ 211 (200-½)			
S-LOC 12	4760-½ 321 (300-½)			4760-¾ 321 (300-¾)
CIRCLING	4940-1 466 (500-1)		4940-1½ 466 (500-1½)	5040-2 566 (600-2)

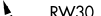
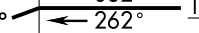
NA

BOE or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 10000 direct FALIA WP and hold.

ATIS 135.425	SALT LAKE CENTER 132.4 338.3	BOZEMAN TOWER★ 118.2 (CTAF) 0	GND CON 121.8	UNICOM 122.95
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10000 ↑		FALIA 		SURPE 5 NM Holding Pattern	
 RW30		 ZIPGO		 082° ← 262° 11000	
 ≤ 5.16° TCH 51		 298° 10000		 268° VGSI and descent angles not coincident.	
10 NM		7.5 NM			
CATEGORY	A		B	C	D
CIRCLING	6380-1¼ 1906 (2000-1¼)		6380-1½ 1906 (2000-1½)	6380-3	1906 (2000-3)

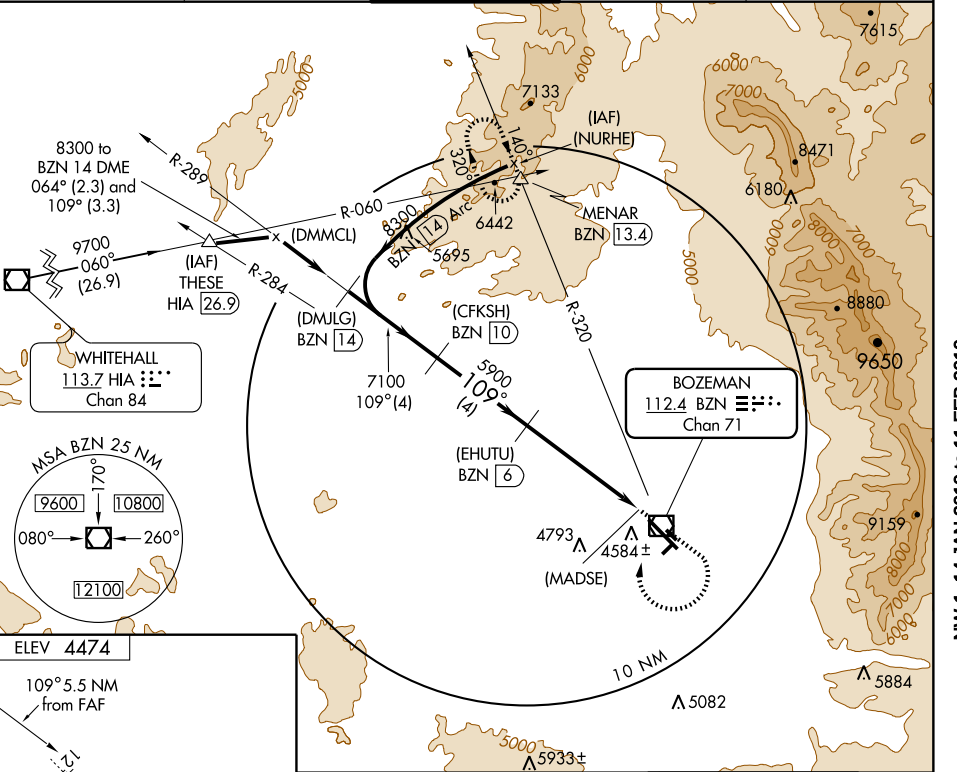
NW-1. 14 JAN 2010 to 11 FEB 2010

V

MALSRR

MISSED APPROACH: Climb to 5300, then a climbing right turn to 9200 via heading 350° to intercept BZN R-320, then via BZN R-320 to MENAR Int and hold.

ATIS 135.425	SALT LAKE CENTER 132.4 338.3	BOZEMAN TOWER★ 118.2 (CTAF) 0	GND CON 121.8	UNICOM 122.95
-----------------	---------------------------------	----------------------------------	------------------	------------------



ELEV 4474

109° 5.5 NM from FAF

TDZE 4439

0.5% UP

0.4% UP

0.4% DOWN

0.7% UP

REIL Rwy 30

HIRL Rwy 12-30

	(DMJLG) BZN 14	(CFKSH) BZN 10	(EHUTU) BZN 6	(MADSE) BZN 1
Procedure	Turn NA			
5300	9200	BZN R-320 112.4	MENAR	
4 NM	4 NM	5 NM	0.5	
CATEGORY	A	B	C	D
S-12	4900-1/2 461 (500-1/2)		4900-3/4 461 (500-3/4)	4900-1 461 (500-1)
CIRCLING	4940-1 466 (500-1)		4940-1 1/2 466 (500-1 1/2)	5040-2 566 (600-2)

NW-1. 14 JAN 2010 to 11 FEB 2010

VOR/DME BZN 112.4 Chan 71	APP CRS 101°	Rwy Idg 8994 TDZE 4439 Apt Elev 4474
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VOR RWY 12
BOZEMAN/GALLATIN FIELD (BZN)

T	Inoperative table does not apply.
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MALS

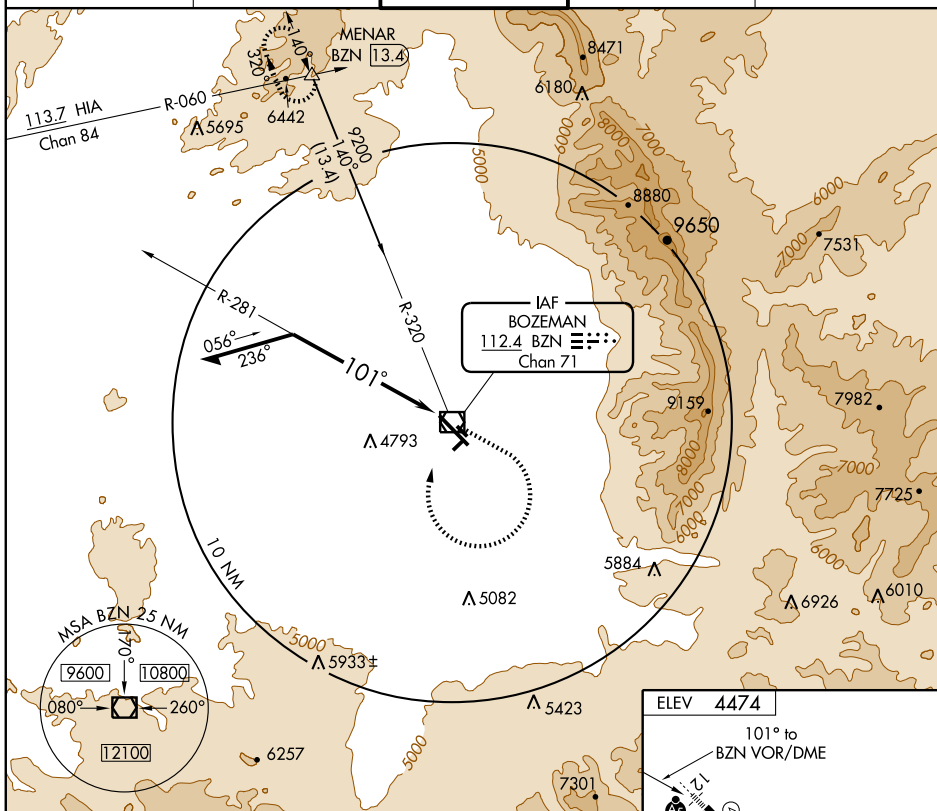
MISSED APPROACH: Climb to 5300, then climbing right turn to 9200 via heading 350° to intercept BZN R-320, then via BZN R-320 to MENAR Int and hold.

ATIS
135.425

SALT LAKE CENTER
132.4 338.3

BOZEMAN TOWER★
118.2 (CTAF) L

GND CON
121.8

UNICOM
122.95

Remain
within 10 NM

* VOR/DME

5300

920

MENAR

A diagram showing a beam bent at a right angle. A vertical line with an arrow at the top represents the line of action. The beam is labeled with a value of 6200 and an angle of 101°.

* Maintain 7000 or above until established outbound for procedure turn.

CATEGORY	A	B	C	D
S-12	5240-1 801 (800-1)	5240-1 ¼ 801 (800-1¼)	5240-2 ¼ 801 (800-2¼)	5240-2½ 801 (800-2½)
CIRCLING	5240-1 766 (800-1)	5240-1 ¼ 766 (800-1¼)	5240-2 ¼ 766 (800-2¼)	5240-2½ 766 (800-2½)

ELEV 4474

101° to
BZN VOR/DME

17

12
44

4

REIL

HIRL

REIL Rwy 30 L

HIRL Rwy 12-30 **L**

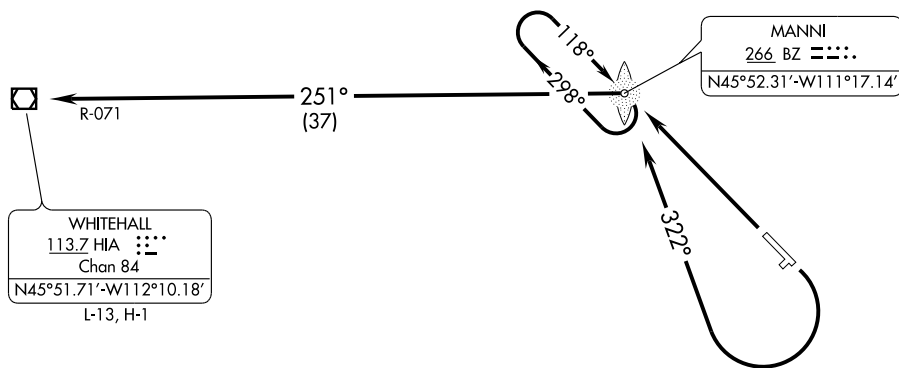
WHITEHALL ONE DEPARTURE

BOZEMAN/ GALLATIN FIELD (BZN)

SL-59 (FAA)

BOZEMAN, MONTANA

ATIS 135.425
 GND CON
 121.8
 BOZEMAN TOWER ★
 118.2 (CTAF)
 SALT LAKE CITY CENTER
 132.4 338.3



NOTE: ADF REQUIRED

TAKE-OFF MINIMUMS

Rwy 3, 21: NA - ATC.

Rwy 12: Standard

Rwy 30: Standard with a minimum climb of 294' per NM to 6500.

TAKE-OFF OBSTACLE NOTES

Rwy 30: Pole 636' from DER, 622' left of centerline, 62' AGL/4452' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn to intercept 322° course to MANNI LOM. Climb in MANNI LOM holding pattern to at or above 8500, then intercept HIA R-071 to HIA VORTAC, cross HIA VORTAC at or above MCA or MEA for route of flight.

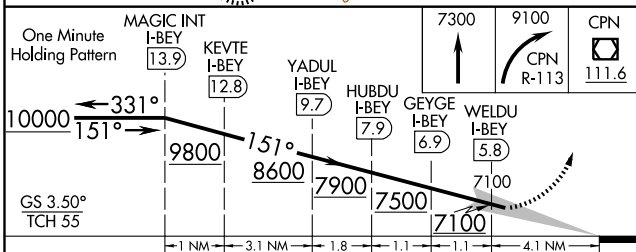
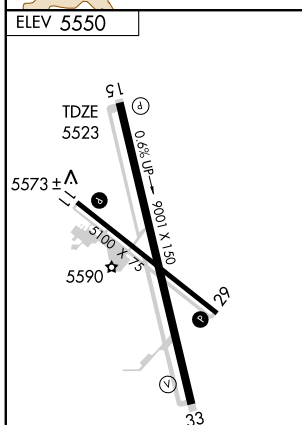
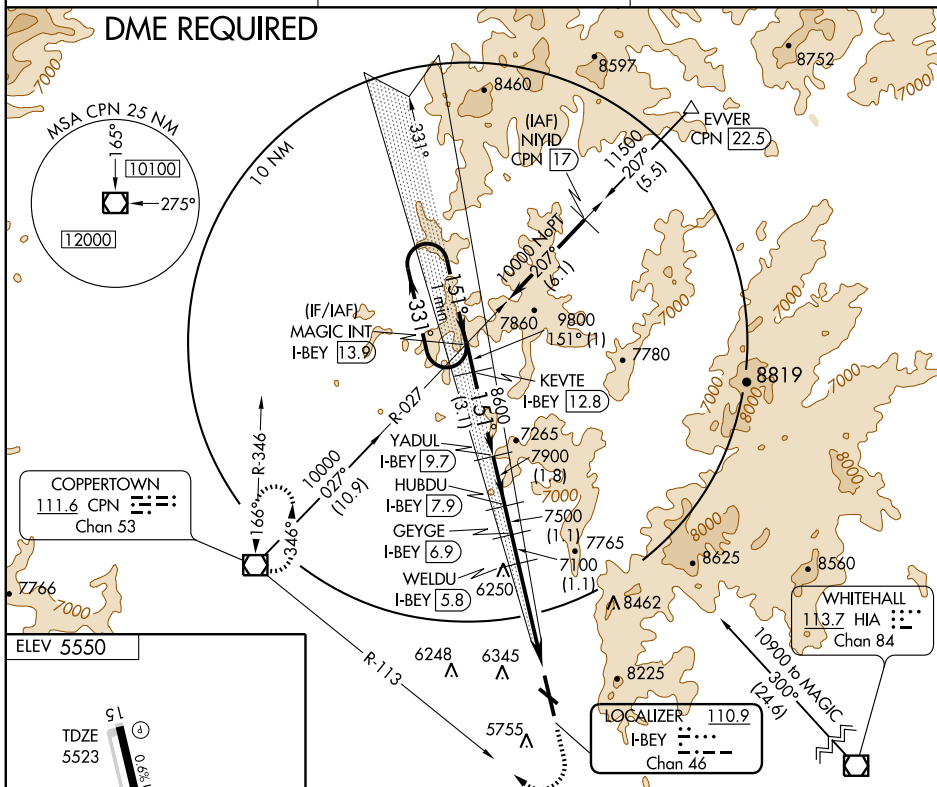
TAKE-OFF RUNWAY 30: Climbing left turn direct MANNI LOM. Climb in MANNI LOM holding pattern to at or above 8500, then intercept HIA R-071 to HIA VORTAC, cross HIA VORTAC at or above MCA or MEA for route of flight.

ILS Y RWY 15
BUTTE/ BERT MOONEY (BTM)

MISSED APPROACH: Climb to 7300 then climbing right turn to 9100 via CPN VOR/DME R-113 to CPN VOR/DME and hold.

UNICOM
123.0 (CTAF) **L**

DME REQUIRED



CATEGORY	A	B	C	D
S-ILS 15	6711-4 1188 (1200-4)			NA
CIRCLING	6720-4 1170 (1200-4)			NA

REIL Rlys 11, 15 and 29 **L**
MIRL Rlys 11-29 and 15-33 **L**

▼

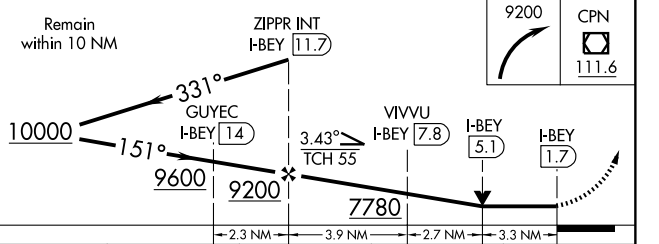
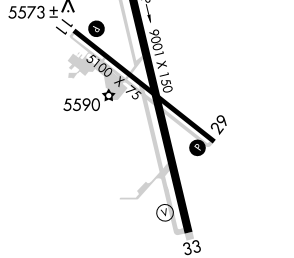
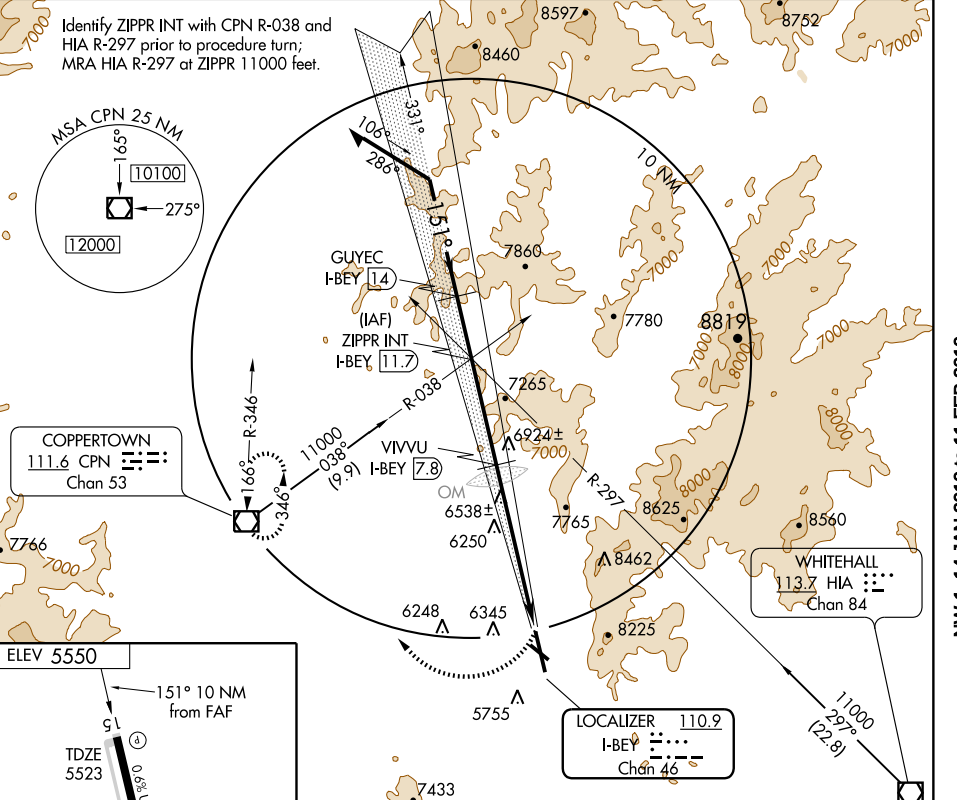
▲

Circling not authorized NE of Rwy 15-33.

If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 9200 direct CPN VOR/DME and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF) 0
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REIL Rwy 11, 15 and 29 0
MRL Rwy 11-29 and 15-33 0

CATEGORY	A	B	C	D
S-LOC 15	6800-1¼ 1277 (1300-1¼)	6800-1½ 1277 (1300-1½)	6800-3	1277 (1300-3)
CIRCLING	6800-1¼ 1250 (1300-1¼)	6800-1½ 1250 (1300-1½)	6800-3	1250 (1300-3)

NW-1, 14 JAN 2010 to 11 FEB 2010

AL-588 (FAA)

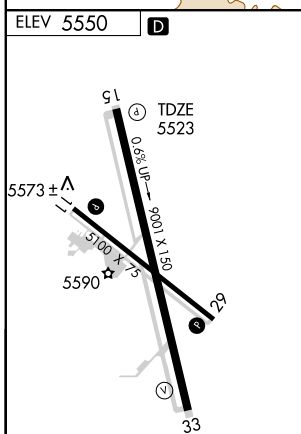
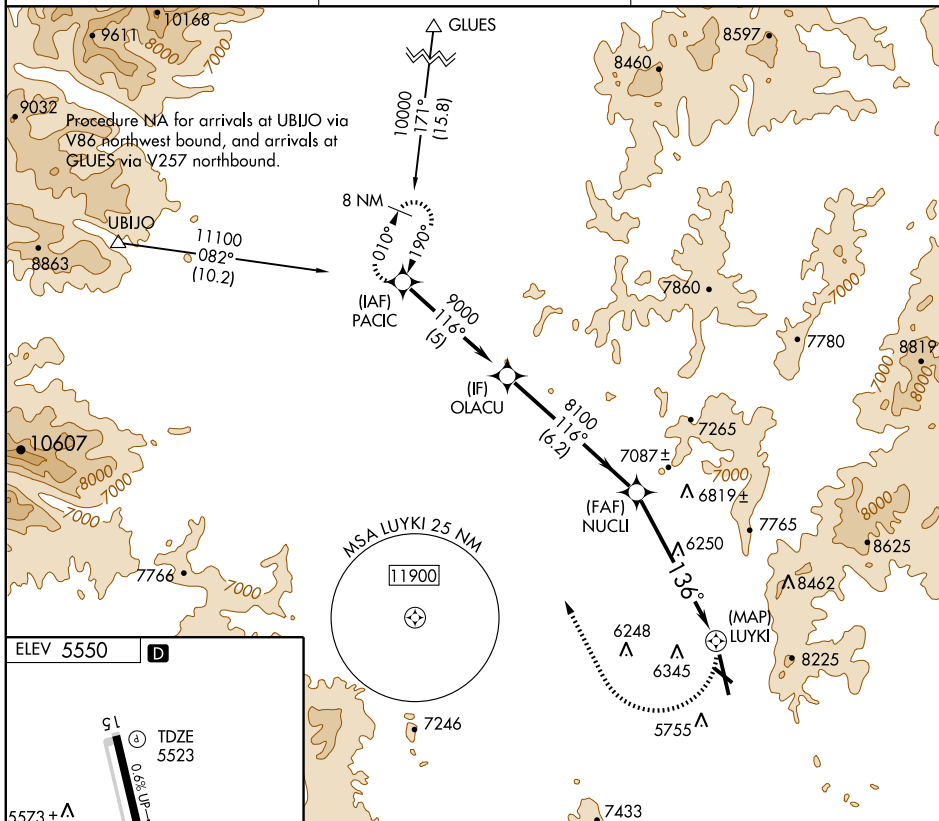
RNAV (GPS) Y RWY 15
BUTTE/BERT MOONEY (BTM)

T Circling NA northeast of Rwy 15-33.
A DME/DME RNP -0.3 NA.
 Visibility reduction by helicopters NA.
 If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 10000 direct PACIC and hold.

ASOS
135.175

SALT LAKE CENTER
132.4 338.3

UNICOM
123.0 (CTAF) **L**

CATEGORY	A	B	C	D
LNAV MDA	7040-1¼ 1517 (1500-1¼)	7040-1½ 1517 (1500-1½)	7040-3 1517 (1500-3)	NA
CIRCLING	7040-1¼ 1490 (1500-1¼)	7040-1½ 1490 (1500-1½)	7040-3	1490 (1500-3)

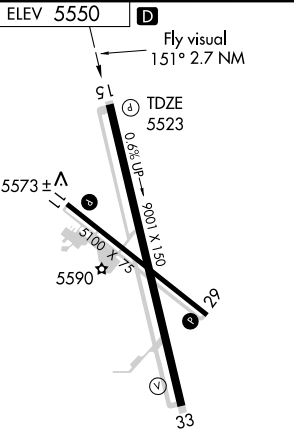
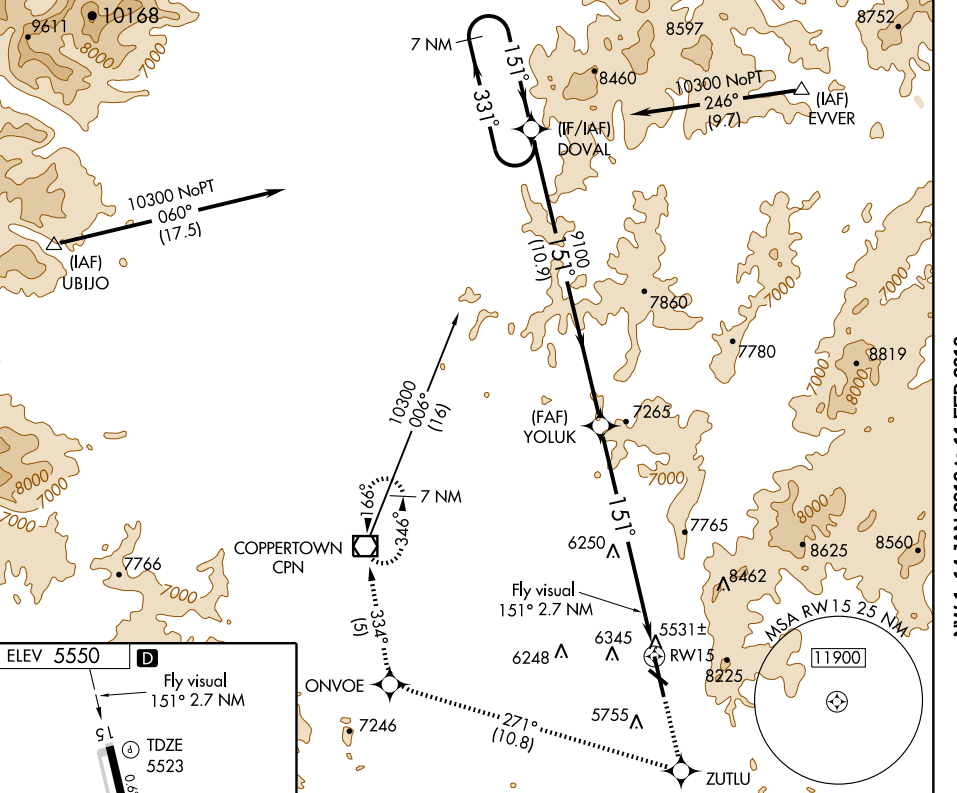
NW-1. 14 JAN 2010 to 11 FEB 2010

REIL Rwy 11, 15 and 29 **L**
MIRL Rwy 11-29 and 15-33 **L**

DME/DME RNP- 0.3 NA.
 If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 10000 direct ZUTLU and right turn via 271° track to ONVOE and via 334° track to CPN VOR/DME and hold, continue climb-in-hold to 10000.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF)
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7 NM Holding Pattern	DOVAL	10000 ZUTLU	ONVOE	334° track	CPN
10300	331°	151°	151°	151°	151°
GS 3.88°	TCH 55	YOLUK	RW15	Fly visual 151° 2.7 NM	
10.9 NM	5.7 NM	2.7 NM			
CATEGORY	A	B	C	D	
LPV DA	6660-2	1137 (1200-2)	NA	NA	
LNAV/VNAV DA			NA	NA	
LNAV MDA			NA	NA	
CIRCLING			NA	NA	

REIL Rwy 11, 15 and 29

MIRL Rwy 11-29 and 15-33

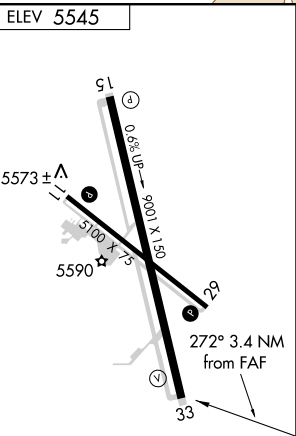
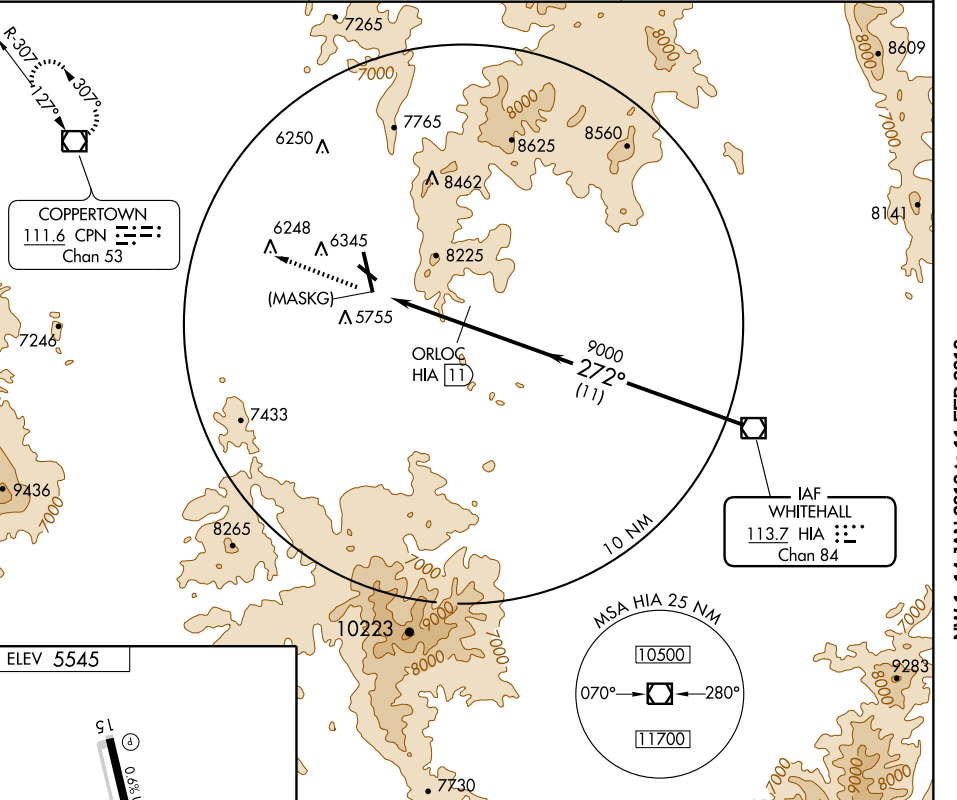
▼

▲

Circling NA northeast of Rwy 15-33.

MISSED APPROACH: Climb to 9000 direct CPN VOR/DME and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF) 0
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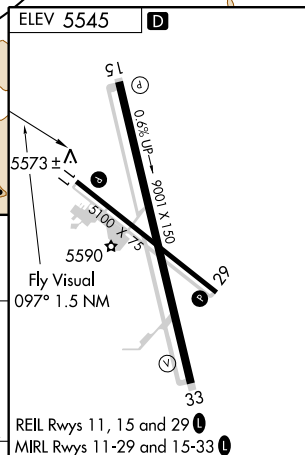
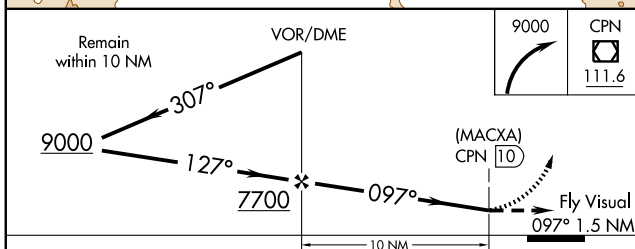
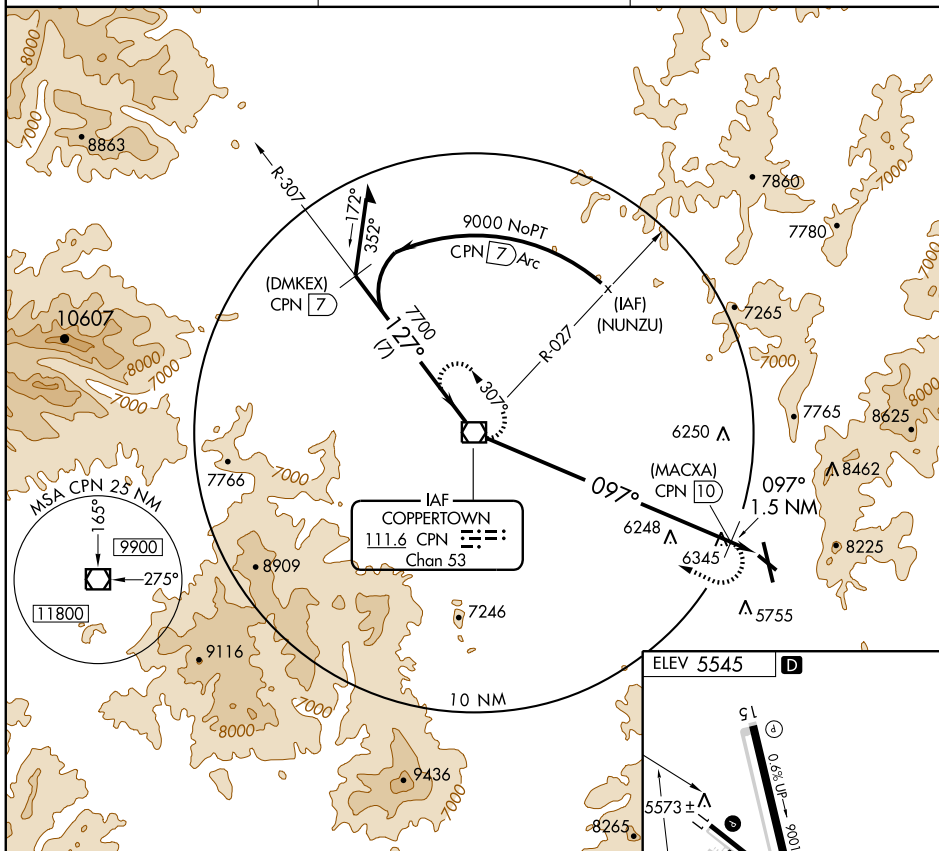


REIL Rws 11, 15, and 29	CPN 111.6	ORLOC HIA 11	VOR/DME 9000	Procedure Turn NA
MIRL Rws 11-29 and 15-33	9000	(MASKG) HIA 14.4	9000	
CATEGORY	A	B	C	D
CIRCLING	8540-1¼ 2995 (3000-1¼)	8540-1½ 2995 (3000-1½)	8540-3	2995 (3000-3)

AL-588 (FAA)

VOR or GPS-B
BUTTE/BERT MOONEY (BTM)

MISSED APPROACH: Climbing right turn to 9000 direct CPN VOR/DME and hold.

UNICOM
123.0 (CTAF) **L**

CATEGORY	A	B	C	D	FAF to MAP 10 NM					
CIRCLING	6900-1½ 1355 (1400-1½)		6900-3 1355 (1400-3)		Knots	60	90	120	150	180
					Min:Sec	10:00	6:40	5:00	4:00	3:20

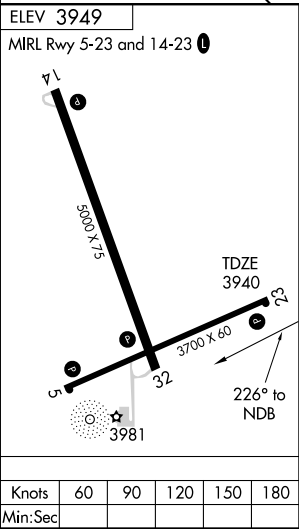
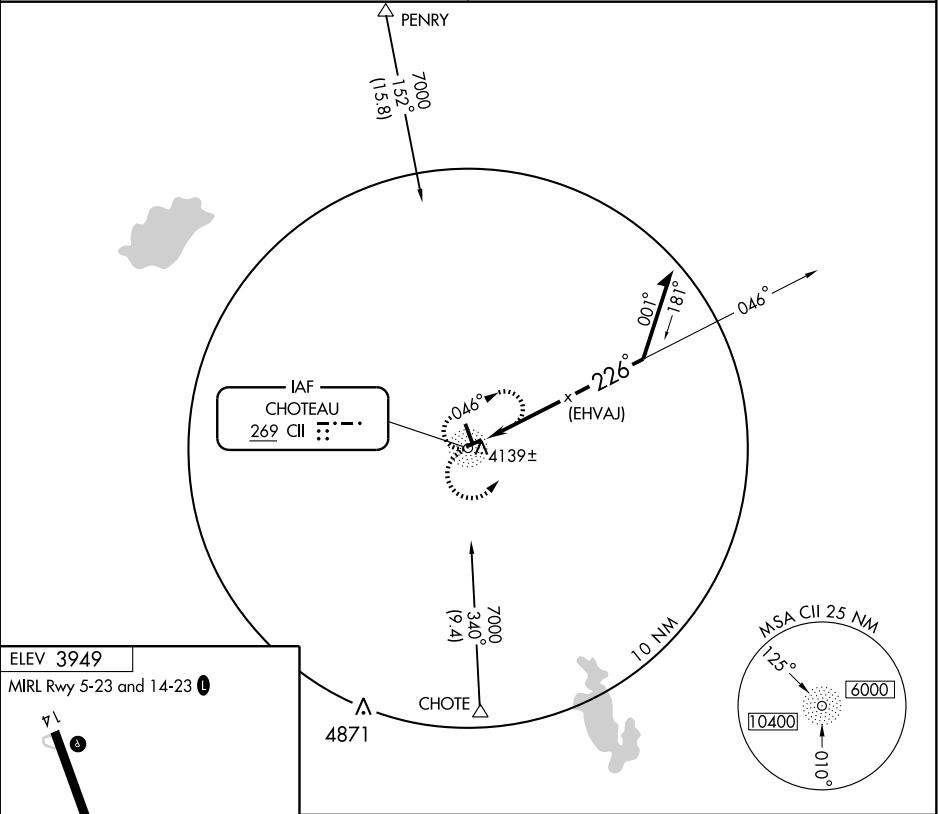
NW-1. 14 JAN 2010 to 11 FEB 2010

NDB CII	APP CRS	Rwy Idg	3700
269	226°	TDZE	3940
		Apt Elev	3949

NDB or GPS RWY 23

CHOTEAU (CII)

NA Use Great Falls altimeter setting.	MISSED APPROACH: Climbing left turn to 6000 direct CII NDB and hold.
SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF)



6000

CII

269

NDB

046°

Remain within 10 NM

6000

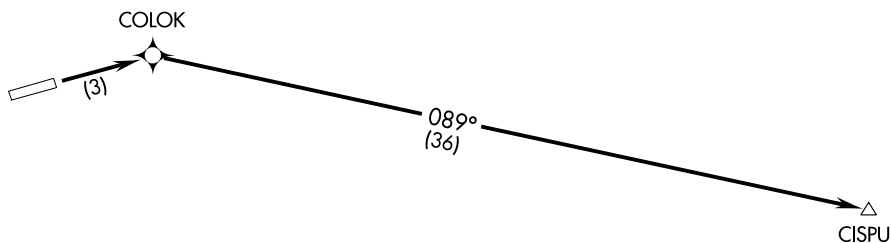
226°

(EHVAJ)

4 NM

CATEGORY	A	B	C	D
S-23	4720-1 780 (800-1)	4720-1¼ 780 (800-1¼)	4720-2¼ 780 (800-2¼)	NA
CIRCLING	4720-1 775 (800-1)	4720-1¼ 775 (800-1¼)	4720-2¼ 775 (800-2¼)	NA

SALT LAKE CENTER
127.75 351.9



TAKE-OFF MINIMUMS

Rwy 6: Standard.
Rwy 24: NA - ATC.

TAKE-OFF OBSTACLE NOTES

Rwy 6: Tree 1492' from DER, 620' right of centerline, 20' AGL/3499' MSL.
Tree 507' from DER, 598' left of centerline, 20' AGL/3419' MSL.

NOTE: GPS required.

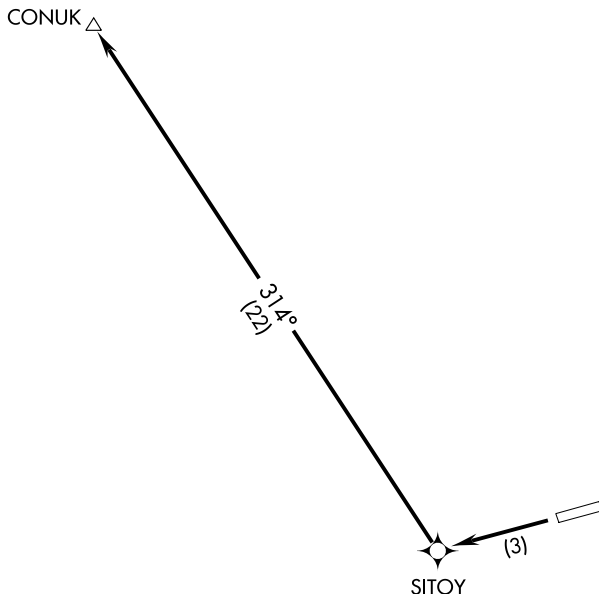
NOTE: RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 6: Climb direct COLOK then via 089° track to CISPU, thence....
....Maintain 9000, expect filed altitude 10 minutes after departure.

CONUK ONE DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
127.75 351.9TAKE-OFF MINIMUMS

Rwy 6: NA - ATC.

Rwy 24: 600-3 or standard with minimum climb of 365' per NM to 4200.

TAKE-OFF OBSTACLE NOTE

Rwy 24: Dragline 11510' from DER, 3559' right of centerline, 225' AGL/3964' MSL.

NOTE: GPS required.

NOTE: RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24: Climb direct SITOY then via 314° track to CONUK, thence....

....Maintain 6000, expect filed altitude 10 minutes after departure.

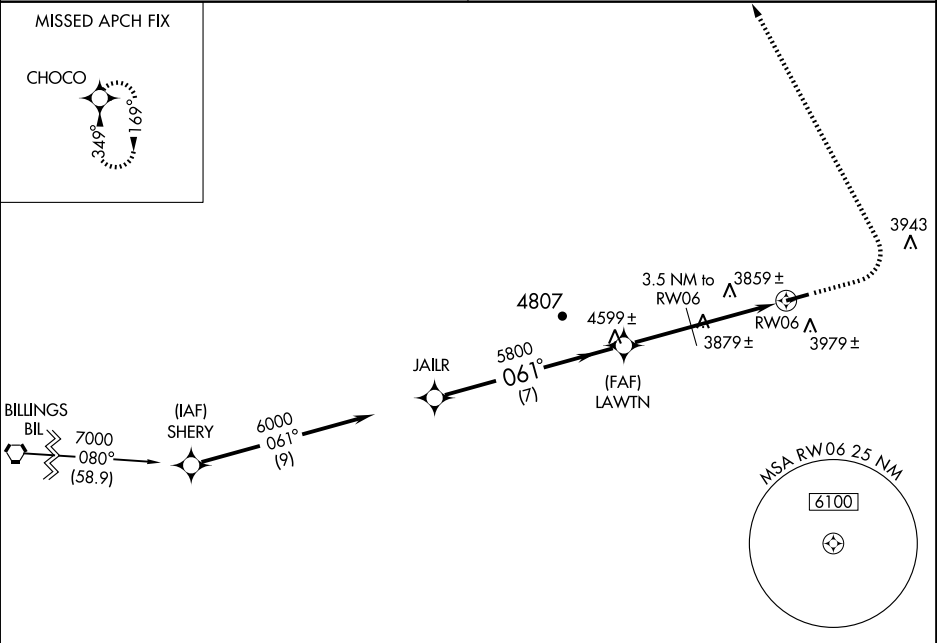
APP CRS	Rwy Idg	5100
061°	TDZE	3426
	Apt Elev	3426

NA When local altimeter not received use Miles City altimeter setting.

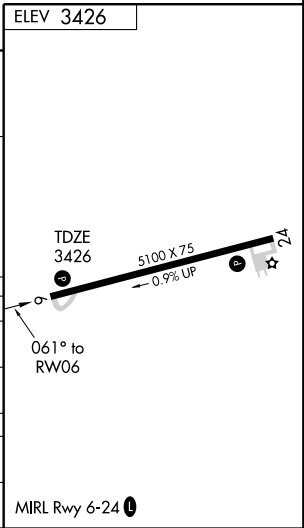
MISSED APPROACH: Climb to 4500 then climbing left turn to 6000 direct CHOCO WP and hold.

SALT LAKE CENTER
127.75 351.9

CTAF
122.9



JAILR				
*5045 when using Miles City altimeter setting.				
4500 6000 CHOCO				
6000 061° 5800 3.5 NM to RW06 RW06				
Procedure Turn NA				
7 NM 2.5 NM 3.5 NM				
CATEGORY	A	B	C	D
S-6	4220-1 794 (800-1)	4220-1 ¼ 794 (800-1 ¼)	4220-2 ¼ 794 (800-2 ¼)	NA
CIRCLING	4340-1 ¼ 914 (1000-1 ¼)	914 (1000-1 ¼)	4340-2 ¾ 914 (1000-2 ¾)	NA
MILES CITY ALTIMETER SETTING				
S-6	NA			
CIRCLING	4580-1 ¼ 1154 (1200-1 ¼)	4580-1 ½ 1154 (1200-1 ½)	4580-3 1154 (1200-3)	NA



GPS RWY 24
COLSTRIP (M46)

APP CRS	Rwy Idg	5100
242°	TDZE	3411
	Apt Elev	3426

▼

▲ NA

When local altimeter not received use Miles City altimeter setting.

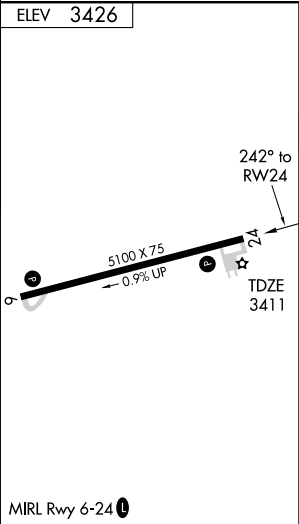
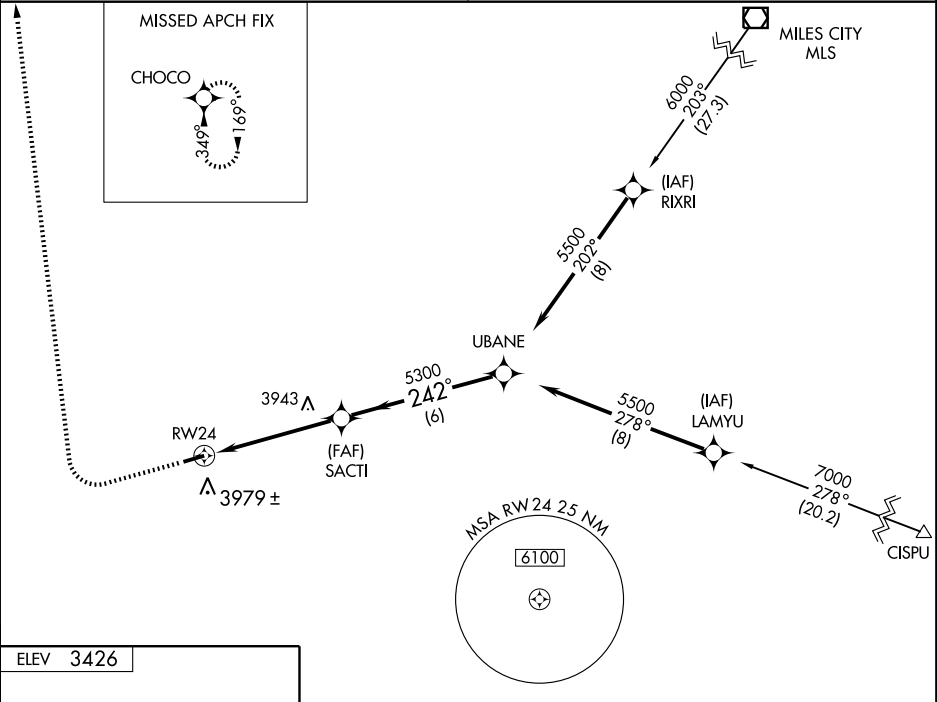
SALT LAKE CENTER

127.75 351.9

MISSED APPROACH: Climb to 4500 then climbing right turn to 6000 direct CHOCO WP and hold.

CTAF

122.9 0



	4500	6000	CHOCO	
	↑	↷	✧	
			SACTI	UBANE
			5300	5500
			242°	
			Procedure Turn NA	
CATEGORY	A	B	C	D
S-24	4200-1 789 (800-1)	4200-1¼ 789 (800-1¼)	4200-2¼ 789 (800-2¼)	NA
CIRCLING	4340-1¼ 914 (1000-1¼)		4340-2¾ 914 (1000-2¾)	NA
MILES CITY ALTIMETER SETTING				
S-24	4440-1¼ 1029 (1100-1¼)	4440-1½ 1029 (1100-1½)	4440-2¾ 1029 (1100-2¾)	NA
CIRCLING	4580-1¼ 1154 (1200-1¼)	4580-1½ 1154 (1200-1½)	4580-3 1154 (1200-3)	NA

NDB CRD	APP CRS	Rwy Idg	4601
<u>293</u>	230°	TDZE	3535
		Apt Elev	3545

NDB or GPS RWY 24
CONRAD (S01)

CONRAD (S01)



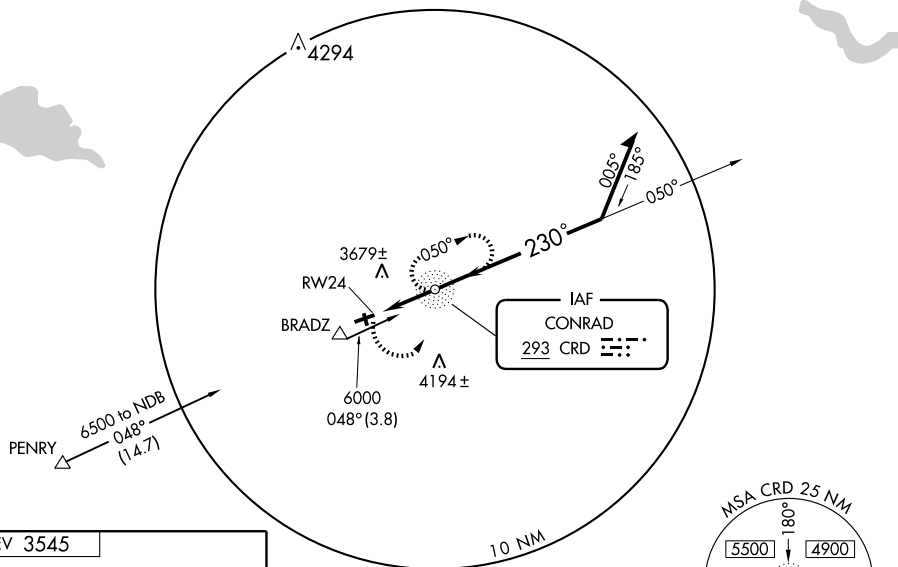
ANA

Use Cut Bank altimeter setting; if not received, procedure not authorized.

MISSED APPROACH: Climbing left turn to 5200 direct CRD NDB and hold.

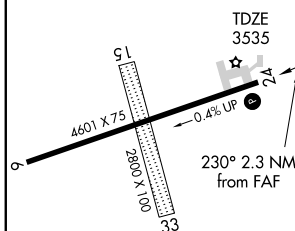
SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) **L**



NW-1. 14 JAN 2010 to 11 FEB 2010

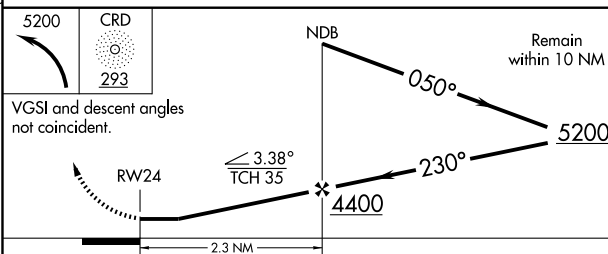
ELEV 3545

MIRL Rwy 6-24 **L**

REIL Rwy 24 L

FAF to MAP 2.3 NM

Knots	60	90	120	150	180
Min:Sec	2:18	1:32	1:09	0:55	0:46



CATEGORY	A	B	C	D
S-24	4260-1	725 (800-1)	4260-2 725 (800-2)	4260-2¼ 725 (800-2¼)
CIRCLING	4260-1	715 (800-1)	4340-2¼ 795 (800-2¼)	NA

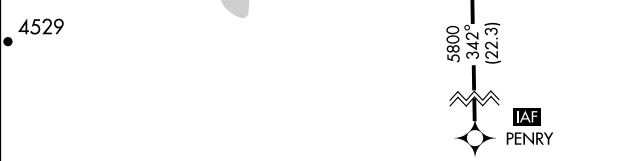
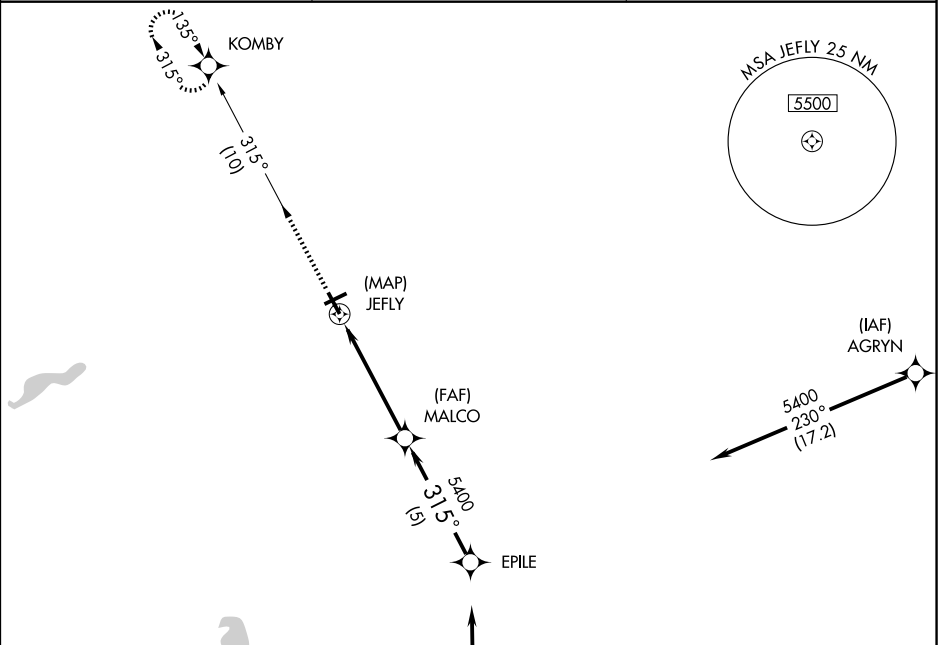
APP CRS	Rwy Idg	5300
315°	TDZE	3847
	Apt Elev	3854

GPS RWY 31

CUT BANK MUNI (CTB)

NA	IAF ARM APPROACH MODE PRIOR TO IAF.	MISSED APPROACH: Climb to 6000 via 315° course to KOMBY WP and hold.
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ASOS 119.025	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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6000

↑

CRS 315°

KOMBY

✦

MALCO

EPILE

JEFLY

✕

5400

315°

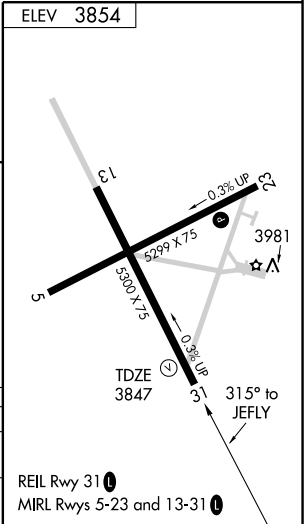
5400

Procedure Turn
NA

5 NM

5 NM

CATEGORY	A	B	C	D
S-31	4220-1 373 (400-1)			4220-1¼ 373 (400-1¼)
CIRCLING	4220-1 366 (400-1)	4320-1 466 (500-1)	4320-1½ 466 (500-½)	4420-2 566 (600-2)



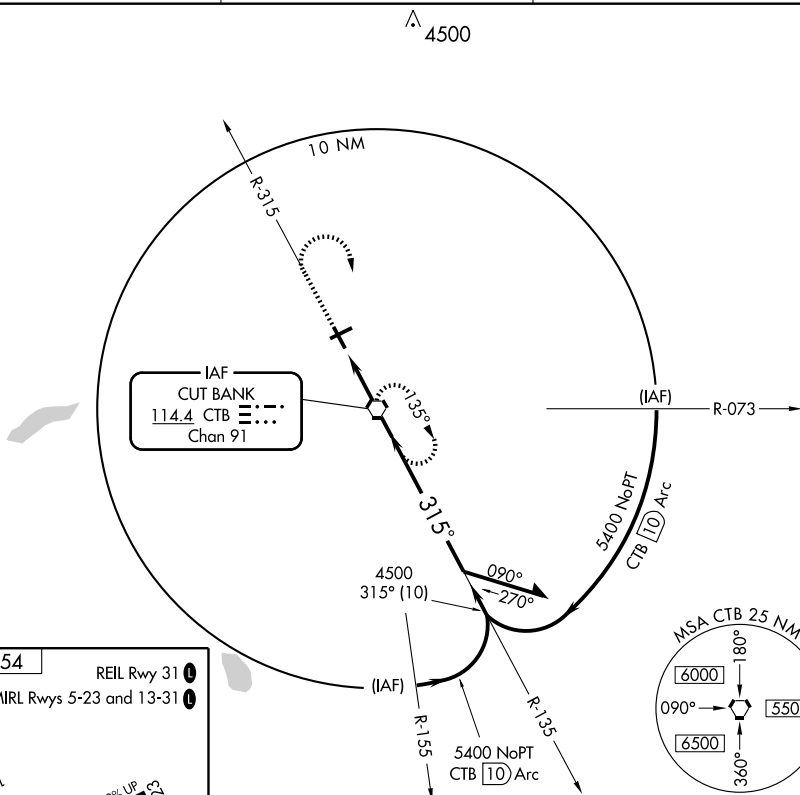
VORTAC CTB <u>114.4</u> Chan 91	APP CRS 315°	Rwy Idg 5300 TDZE 3847 Apt Elev 3854
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VOR RWY 31
CUT BANK MUNI (CTB)

MISSED APPROACH: Climb to 5400 via CTB R-315 then right turn direct CTB VORTAC and hold.

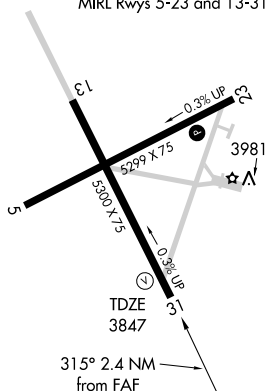
ASOS
119.025

SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) **L**

ELEV 3854

REIL Rwy 31 L

MIRL Rwy 5-23 and 13-31 **L**

5400
↑
CTB R-31

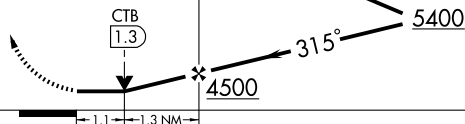
CTB



114.4

VORTAC

Remain
within 10 NM



315° 2.4 NM FAF to MAP 2.4 NM							CATEGORY	A	B	C	D
							S-31	4200-1 353 (400-1)			4200-1½ 353 (400-1½)
Knots	60	90	120	150	180		CIRCLING	4340-1 486 (500-1)		4340-1½ 486 (500-1½)	4420-2 566 (600-2)
Min:Sec	2:24	1:36	1:12	0:58	0:48						

VOR/DME DLN <u>113.0</u> Chan 77	APP CRS 185°	Rwy Idg N/A TDZE N/A Apt Elev 5241
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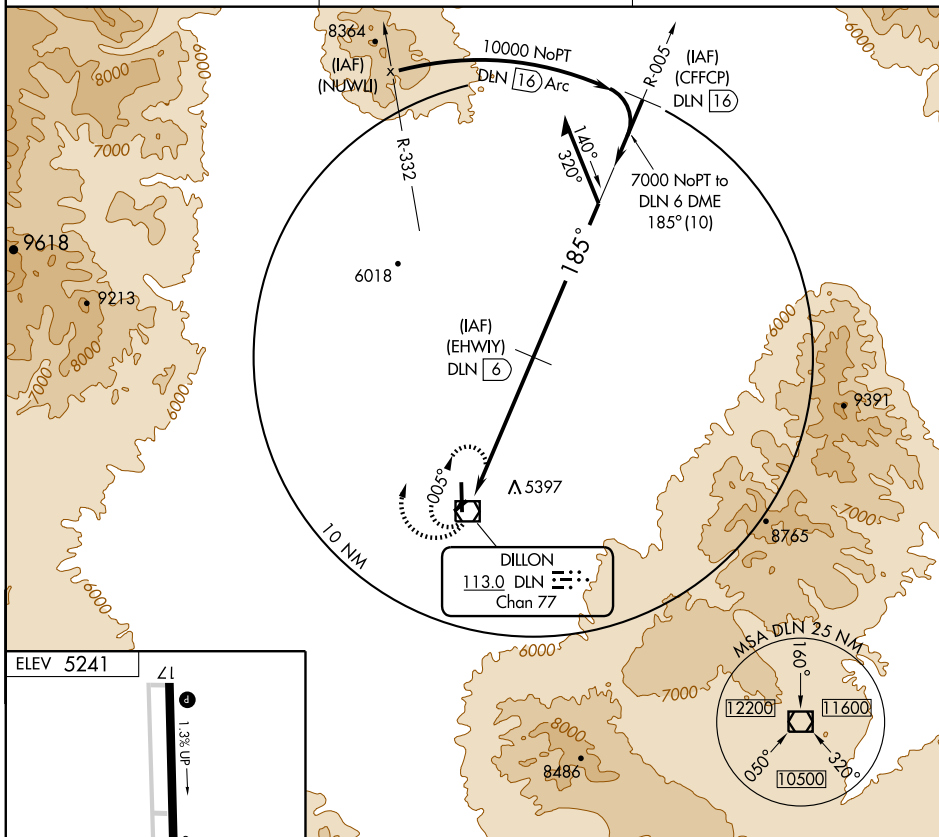
VOR/DME or GPS-B
DILLON (DLN)

T Procedure not authorized when Dillon altimeter setting
A not available.

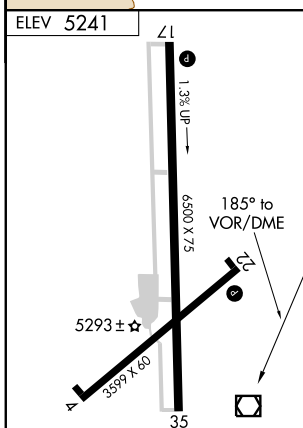
MISSED APPROACH: Climb to 9000 in DLN VOR/DME holding pattern.

ASOS
135,225

SALT LAKE CENTER
132.4 338.3

UNICOM
122.8 (CTAF) **L**

NW-1. 14 JAN 2010 to 11 FEB 2010



9000	DLN
↑	
	<u>113.0</u>

(EHWIY)
DLN 6

Remain
within 10 NM

VOR/DME

CATEGORY

A

B

C

D

References

5720-1

5740-1

5760-1½

5840-2

Knots

60

9

--	--

0

50

18

Min:Sec

[illegible]

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VOR or GPS-A
DILLON (DLN)

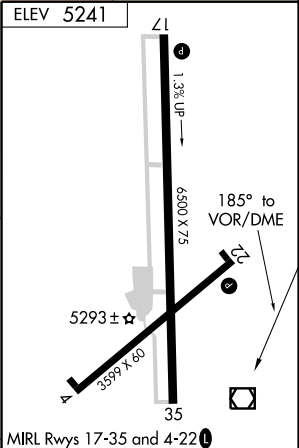
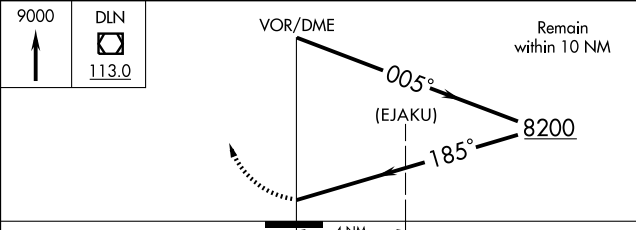
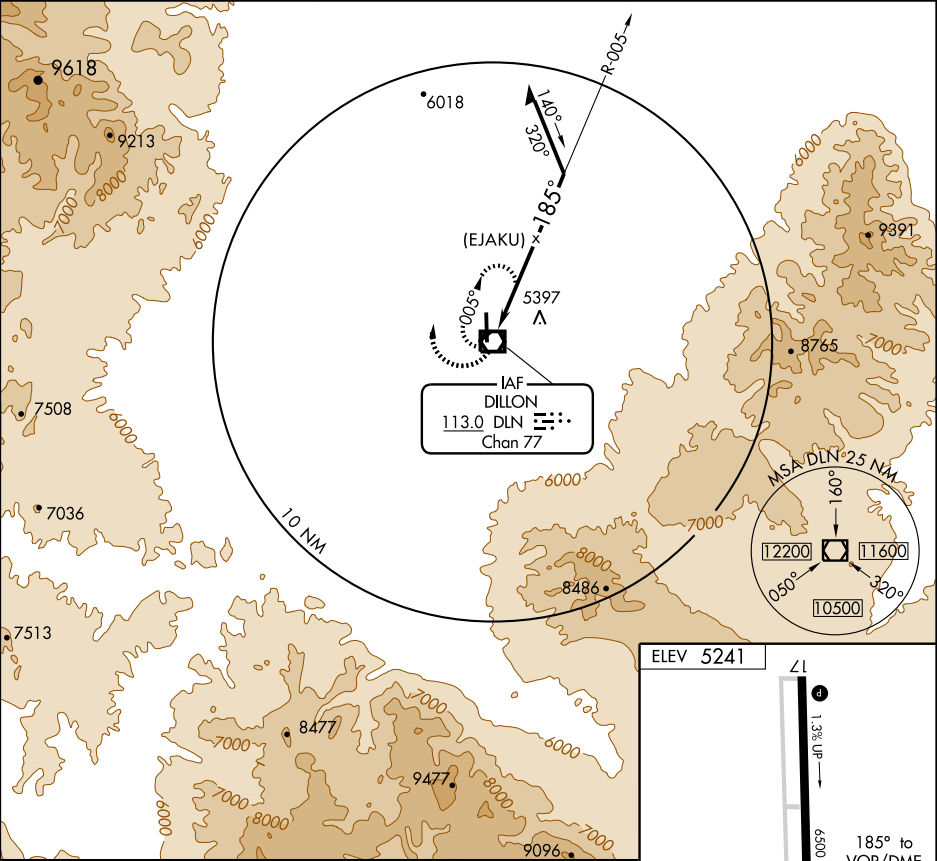
VOR/DME DLN 113.0 Chan 77	APP CRS 185°	Rwy Idg TDZE Apt Elev 5241	N/A N/A
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Procedure not authorized when Dillon altimeter setting not available.

MISSED APPROACH: Climb to 9000 in DLN VOR/DME holding pattern.

ASOS 135.225	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 
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CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	6700-1¼ 1462 (1500-1¼)	6700-1½ 1462 (1500-1½)	6700-3	1462 (1500-3)	Min:Sec					

NDB FOR	APP CRS	Rwy Idg	4799
<u>236</u>	<u>257°</u>	TDZE	2726
		Apt Elev	2727

NDB RWY 26
FORSYTH/ TILLITT FIELD (1S3)

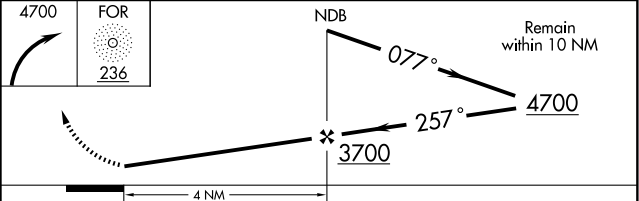
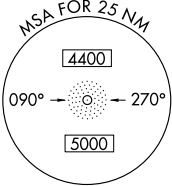
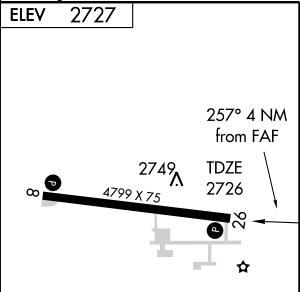
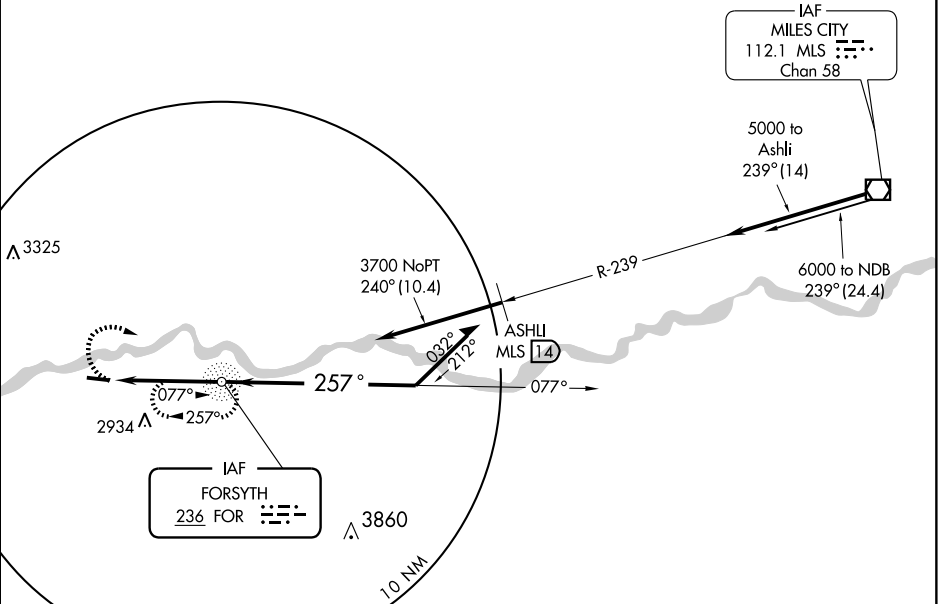
Use Miles City altimeter setting, when not available, except for operators with approved weather reporting services, procedure not authorized.

MISSED APPROACH: Climbing right turn to 4700 direct FOR NDB and hold.



GREAT FALLS RADIO
122.2 255.4

UNICOM
122.8 (CTAF) 0



MIRL Rwy 8-26 0

FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

CATEGORY	A	B	C	D
S-26	3340-1	614 (700-1)	3340-1 3/4	3340-2
			614 (700-1 3/4)	614 (700-2)
CIRCLING	3340-1	3420-1	3420-2	3440-2 1/4
	614 (700-1)	694 (700-1)	694 (700-2)	714 (800-2 1/4)

APP CRS	Rwy Idg	4300
228°	TDZE	2864
	Apt Elev	2869

RNAV (GPS) RWY 23

FORT BENTON (79S)

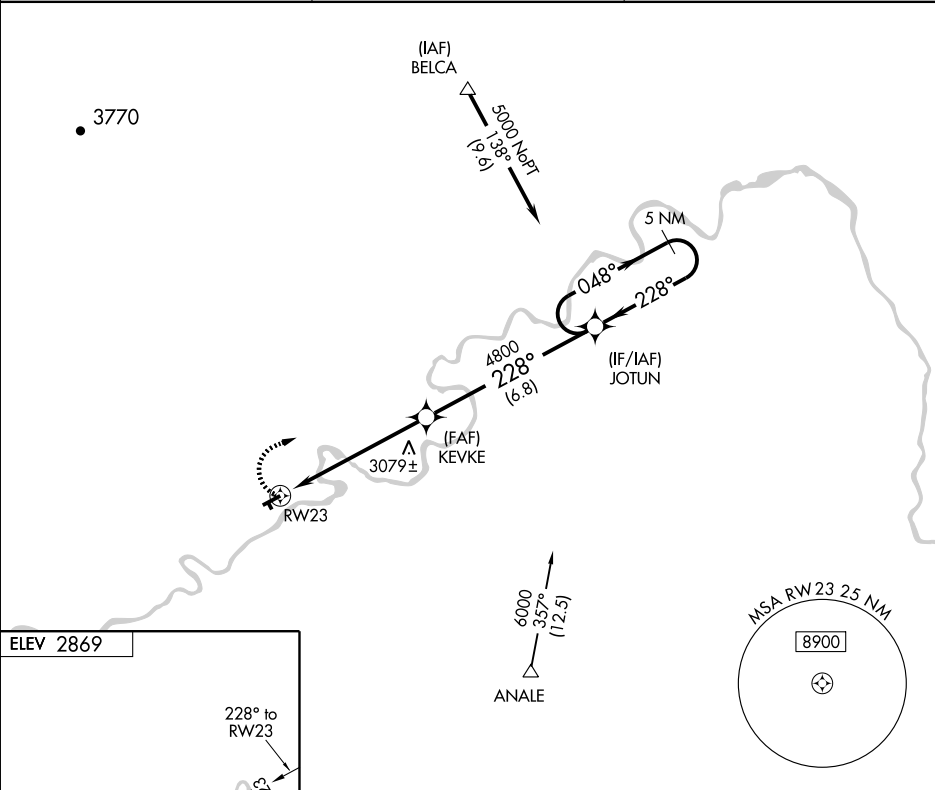
▼

▲

DME/DME RNP-0.3 NA. Procedure NA at night.
When local altimeter setting not received, use Great Falls
altimeter setting and increase all MDA 280 feet and all
Cat B and C visibilities 1 mile.

MISSED APPROACH: Climbing right turn to 5000
direct JOTUN and hold.

AWOS-A 122.8	SALT LAKE CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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5000

JOTUN

1.4 NM to RW23

KEVKE

5 NM Holding Pattern

048° →

← 228°

5000

CATEGORY	A	B	C	D
LNAV MDA	3340-1	476 (500-1)	3340-1¼ 476 (500-1¼)	NA
CIRCLING	3340-1	471 (500-1)	3340-1½ 471 (500-1½)	NA

MIRL Rwy 5-23

0

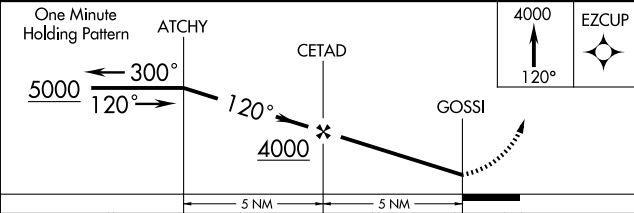
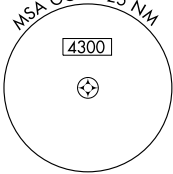
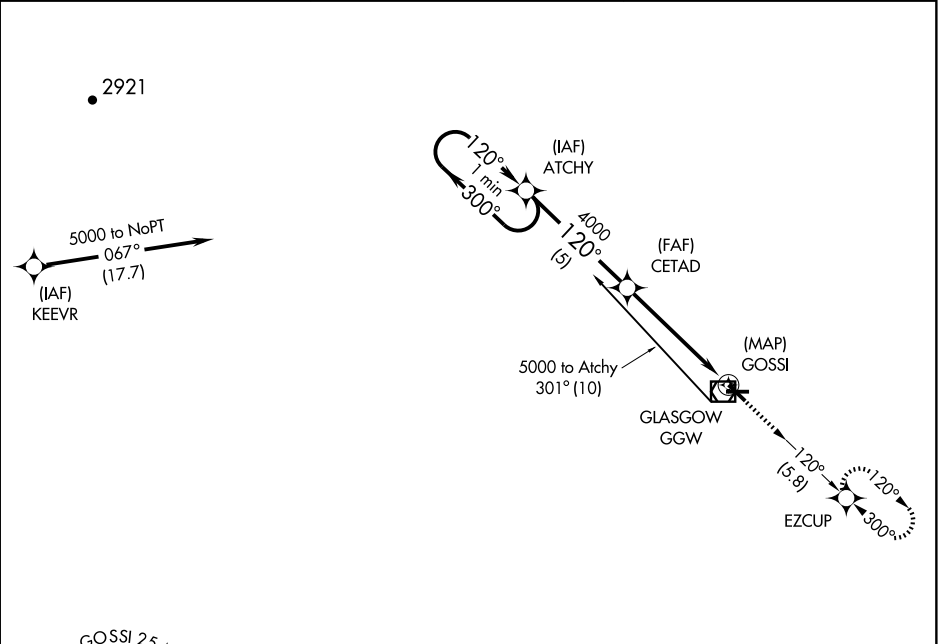
GPS RWY 12

APP CRS	Rwy Idg	5001
120°	TDZE	2291
	Apt Elev	2294

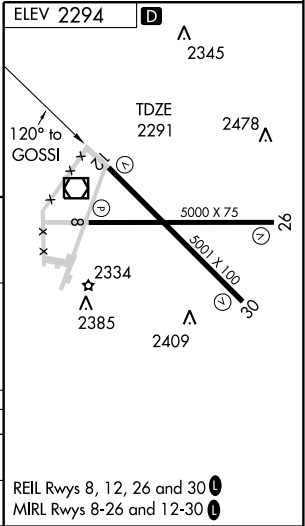
GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

▲ NA	MISSED APPROACH: Climb to 4000 via 120° course to EZCUP WP and hold.
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ASOS 135.175	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-12	2720-1	429 (500-1)	2720-1¼ 429 (500-1¼)	2720-1½ 429 (500-1½)
CIRCLING	2780-1	486 (500-1)	2780-1½ 486 (500-1½)	2860-2 566 (600-2)



NDB MKR
339

APP CRS
272°

Rwy Idg	5001
TDZE	2291
Apt Elev	2294

NDB RWY 30

GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

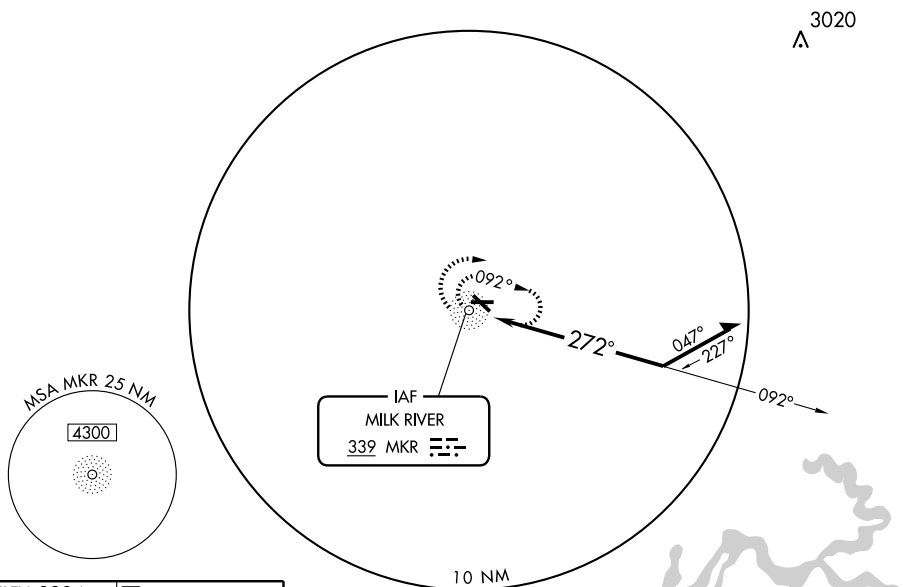
ACTIVATE MIRL Rwy's 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 3900 in MKR NDB holding pattern.

ASOS
135.175

SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF) **L**



NW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 2294

D

$$\begin{matrix} \Delta \\ 2345 \end{matrix}$$

2478 Δ

MKR
339

NDB

within 10 NM

3900

CATEGORY

A

B

C

D

S-30

2840

549 (600-1)

2840

2840

549 (60)

549 (60)

2840

2860

REIL Rwys 8, 12, 26 and 30 **L**MIRL Rwy 8-26 and 12-30 **L**

VOR/DME GGW 113.9 Chan 86	APP CRS 293°	Rwy Idg TDZE Apt Elev	5001 2291 2294
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VOR or GPS RWY 30

GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

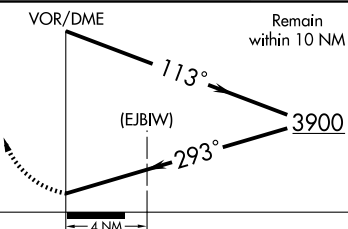
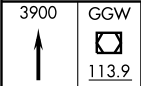
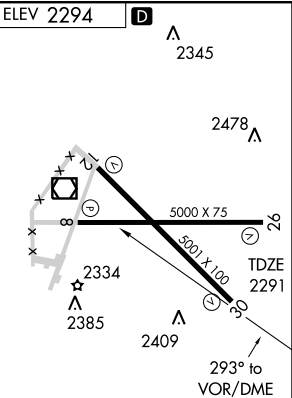
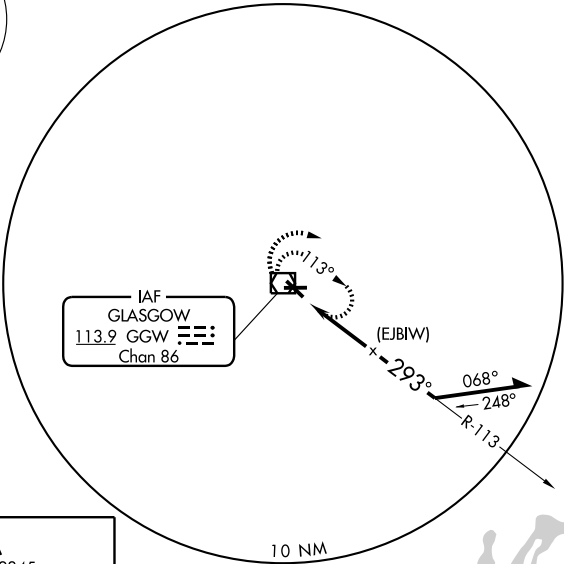
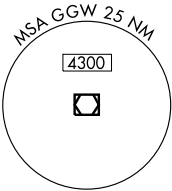
ACTIVATE MIRL Rwy 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 3900 in GGW VOR/DME holding pattern.

ASOS
135.175

SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF)



REIL Rwy 8, 12, 26 and 30
MIRL Rwy 8-26 and 12-30

CATEGORY	A	B	C	D
S-30	2780-1	489 (500-1)	2780-1¼ 489 (500-1¼)	2780-1½ 489 (500-1½)
CIRCLING	2780-1	487 (500-1)	2780-1½ 487 (500-1½)	2860-2 567 (600-2)

VOR RWY 12

VOR/DME GGW
113.9
Chan **86**

APP CRS
133°

Rwy Idg
TDZE
Apt Elev
5001
2291
2294

GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

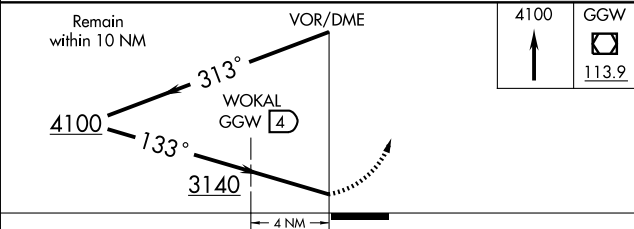
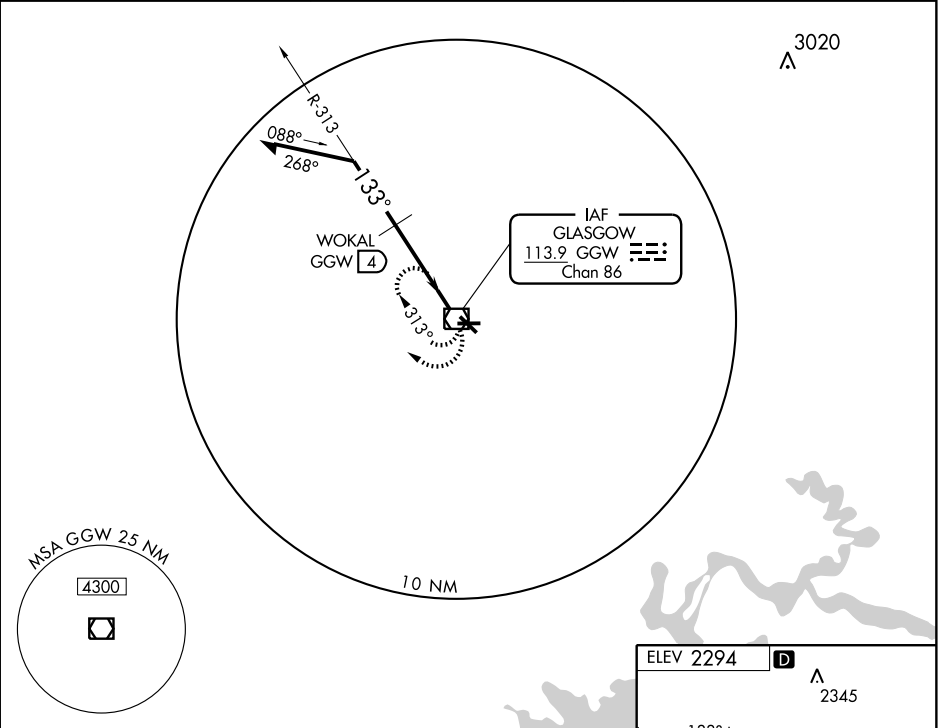
A
ACTIVATE MIRL Rwy 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 4100 in GGW VOR/DME holding pattern.

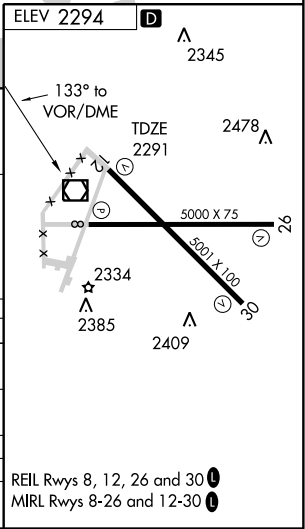
ASOS
135.175

SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF)



CATEGORY	A	B	C	D
S-12	3140-1 849 (900-1)	3140-1¼ 849 (900-1¼)	3140-2½ 849 (900-2½)	3140-2¾ 849 (900-2¾)
CIRCLING	3140-1 847 (900-1)	3140-1¼ 847 (900-1¼)	3140-2½ 847 (900-2½)	3140-2¾ 847 (900-2¾)
VOR/DME MINIMUMS				
S-12	2700-1	409 (500-1)	2700-1¼	409 (500-1¼)
CIRCLING	2780-1	487 (500-1)	2780-1½ 487 (500-1½)	2860-2 567 (600-2)



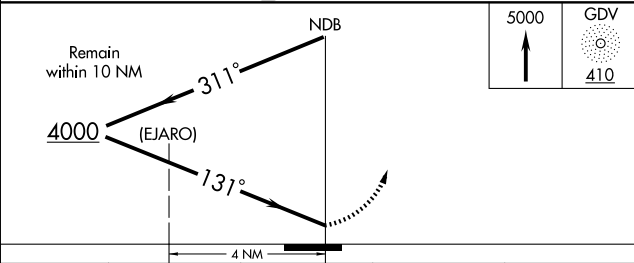
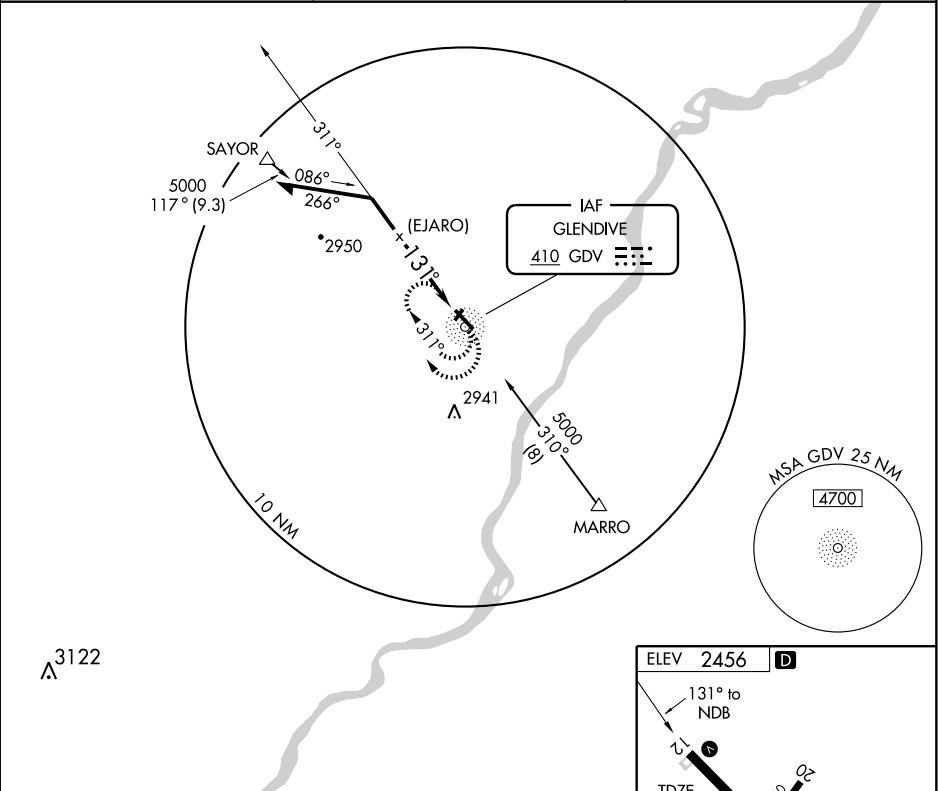
REIL Rwy 8, 12, 26 and 30
MIRL Rwy 8-26 and 12-30

NDB GDV 410	APP CRS 131°	Rwy Idg TDZE Apt Elev	5704 2456 2456
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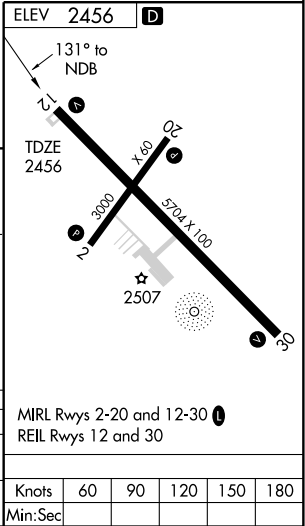
NDB or GPS RWY 12
 GLENDIVE/ DAWSON COMMUNITY (GDV)

	MISSED APPROACH: Climb to 5000 in GDV NDB holding pattern.
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AWOS-3 135.075	GREAT FALLS RADIO 122.55	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-12	3300-1 844 (900-1)	3300-1¼ 844 (900-1¼)	3300-2½ 844 (900-2½)	3300-2¾ 844 (900-2¾)
CIRCLING	3300-1 844 (900-1)	3300-1¼ 844 (900-1¼)	3300-2½ 844 (900-2½)	3300-2¾ 844 (900-2¾)



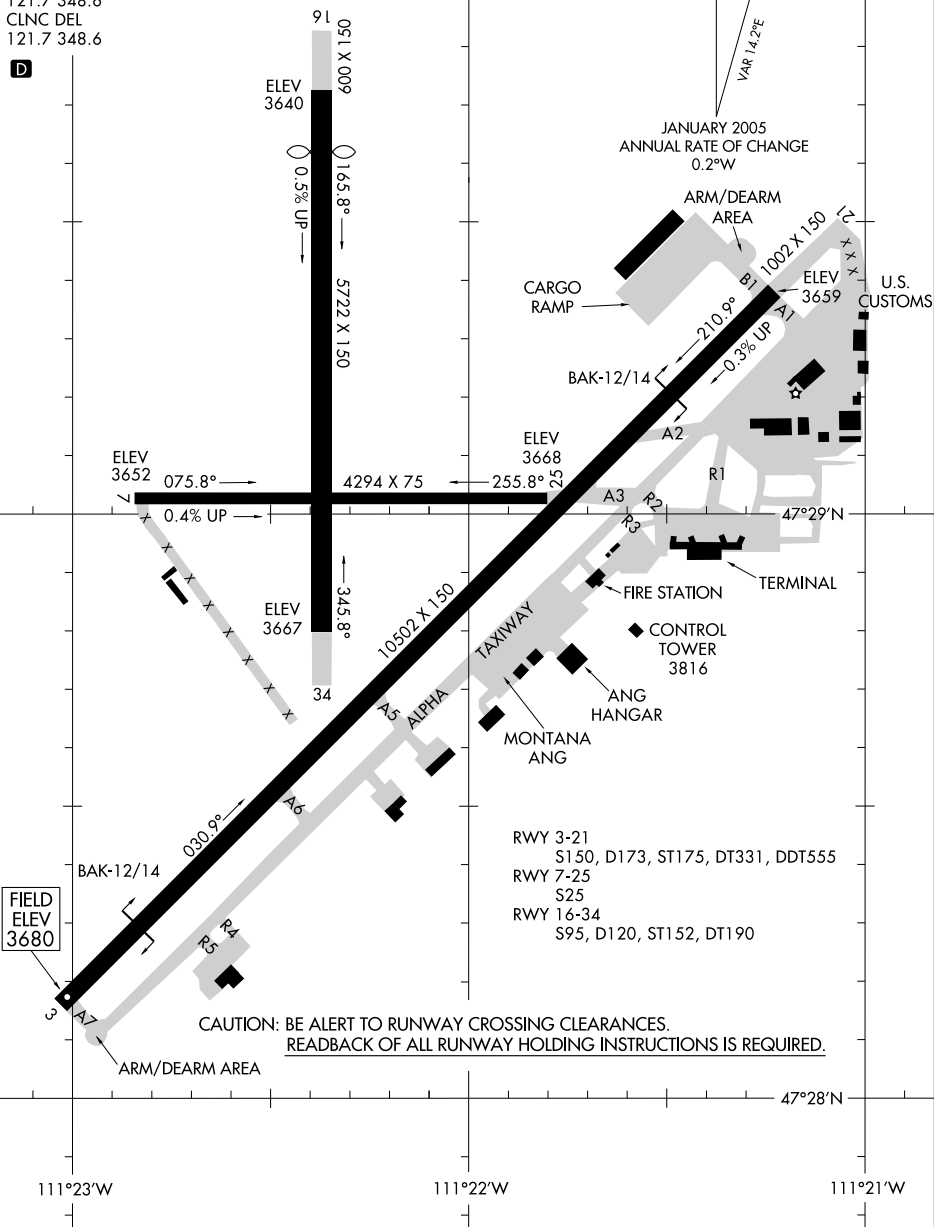
AIRPORT DIAGRAM

AL-177 (FAA)

GREAT FALLS INTL (GTF)
GREAT FALLS, MONTANA

ATIS
126.6 269.0
GREAT FALLS TOWER
118.7 282.2
GND CON
121.7 348.6
CLNC DEL
121.7 348.6

D



NW-1. 14 JAN 2010 to 11 FEB 2010

APP CRS
209°

Rwy Idg
TDZE
Apt Elev

10502
3669
3680

GPS RWY 21

GREAT FALLS INTL (GTF¹)

▼

▲ NA

MISSED APPROACH: Climbing right turn to 8000 direct NUPUQ WP and hold.

ATIS

126.6 269.0

GREAT FALLS APP CON

128.6 259.1

GREAT FALLS TOWER

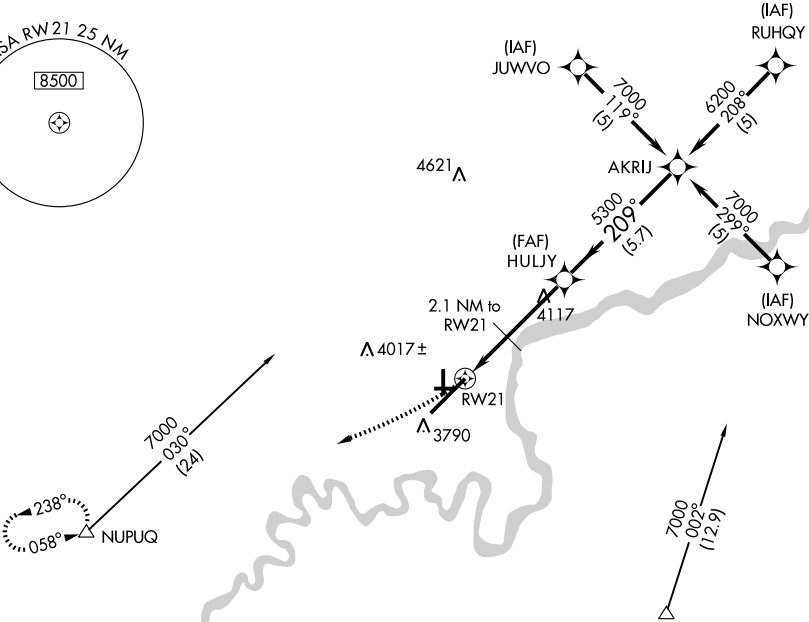
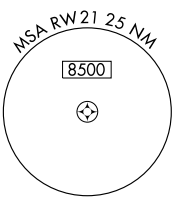
118.7 282.2

GND CON

121.7 348.6

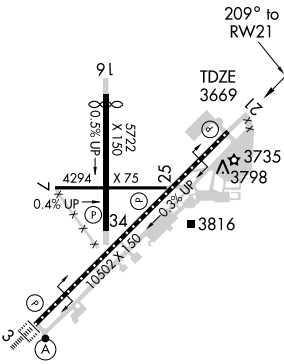
CLNC DEL

121.7 348.6



ELEV 3680

D



TDZ/CL Rwy 3

REIL Rwy 21

MIRL Rwy 7-25

HIRL Rwy 3-21 and 16-34

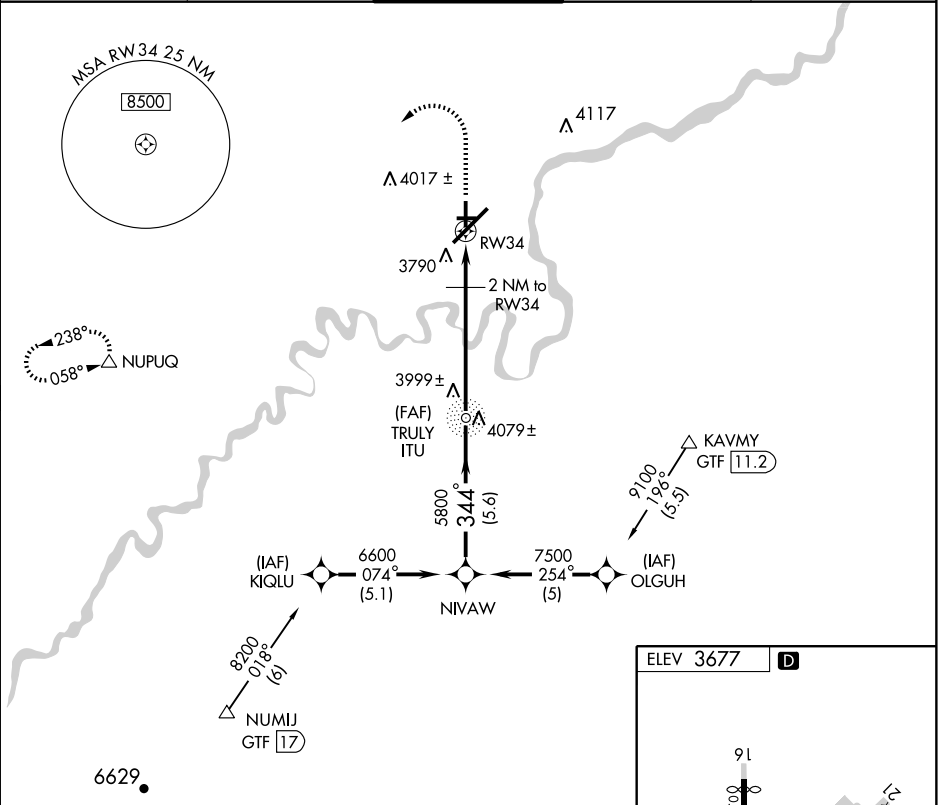
8000		NUPUQ		VGSi and descent angles not coincident.		AKRIJ	
				HULJY		6200	
RW21		1 NM to RW21		2.1 NM to RW21		5300	
1 NM		1.1 NM		2.9 NM		5.7 NM	
CATEGORY	A		B		C		D
S-21	4040-1		371 (400-1)		4040-1 1/4		371 (400-1 1/4)
CIRCLING	4120-1		4140-1		4140-1 1/2		4240-2
	440 (500-1)		460 (500-1)		460 (500-1 1/2)		560 (600-2)

▼

▲ NA

MISSED APPROACH: Climb to 4300, then climbing left turn to 8000 direct NUPUQ WP and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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NIPAW

6600

Procedure Turn NA

4300

8000

NUPUQ

344°

5800

2.96° TCH 50

4340

2 NM to RW34

RW34

5.6 NM

4.6 NM

2 NM

CATEGORY	A	B	C	D
S-34	4100-1 431 (500-1)	4100-1 ½ 431 (500-1 ½)	4100-1 ½ 431 (500-1 ½)	4100-1 ½ 431 (500-1 ½)
CIRCLING	4120-1 443 (500-1)	4140-1 463 (500-1)	4140-1 ½ 463 (500-1 ½)	4240-2 563 (600-2)

ELEV 3677

D

91

0.5% UP

5722

X 75

525

34

0.4% UP

4294

0.3% UP

3816

TDZE 3669

344° to RW34

TDZ/CL Rwy 3

REIL Rwy 21

MIRL Rwy 7-25

HIRL Rwy 3-21 and 16-34

LOC I-SMR
111.3

APCH CRS
029°

Rwy ldg **10,502**
TDZE **3674**
Arpt Elev **3680**

JAL 177 [USAF]

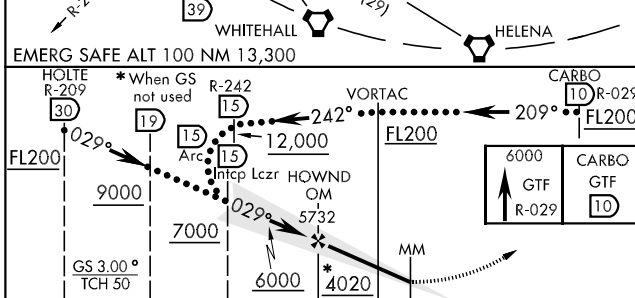
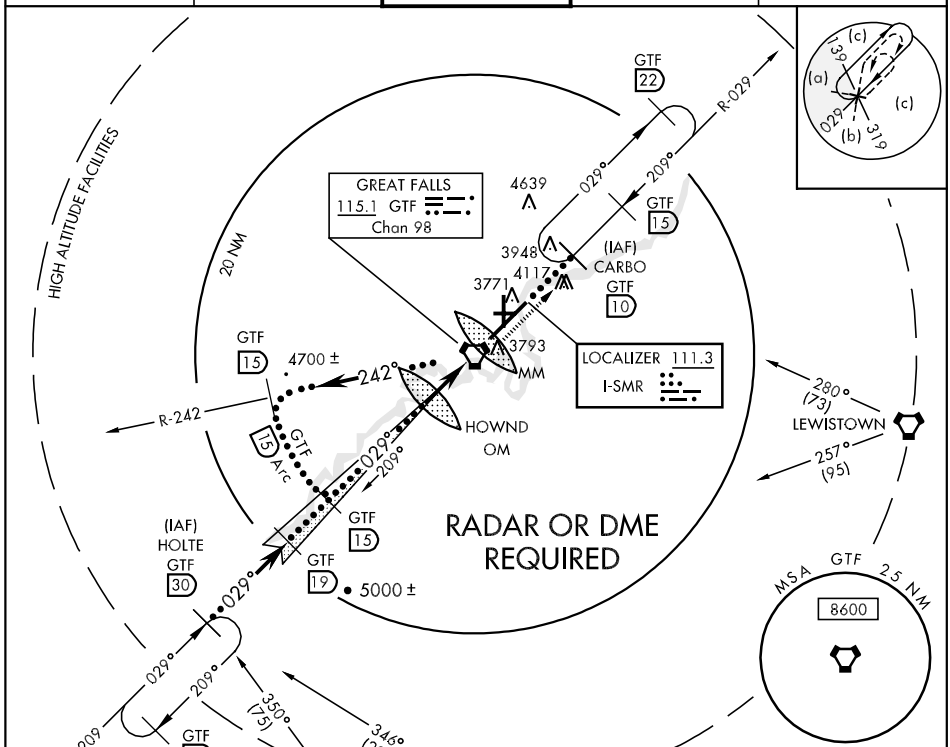
GREAT FALLS INTL (KGTF)

ALSIF-2

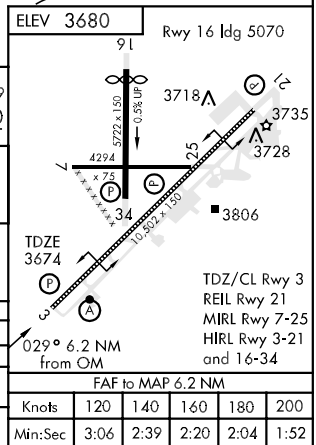


MISSED APPROACH: Climb to 6000 via GTF R-029 to CARBO 10 DME and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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CATEGORY	C	D	E
S-ILS 3	3874/24	200	(200-½)
S-LOC 3	4020/24 346 (400-½)	4020/40	346 (400-¾)
CIRCLING	4140-1½ 466 (500-1½)	4240-2 566 (600-2)	4420-2¾ 746 (800-2¾)



VORTAC GTF
115.1
 Chan **98**

APCH CRS
029°

Rwy ldg **10,502**
 TDZE **3674**
 Arpt Elev **3680**

JAL 177 [USAF]

GREAT FALLS INTL (KGTF)

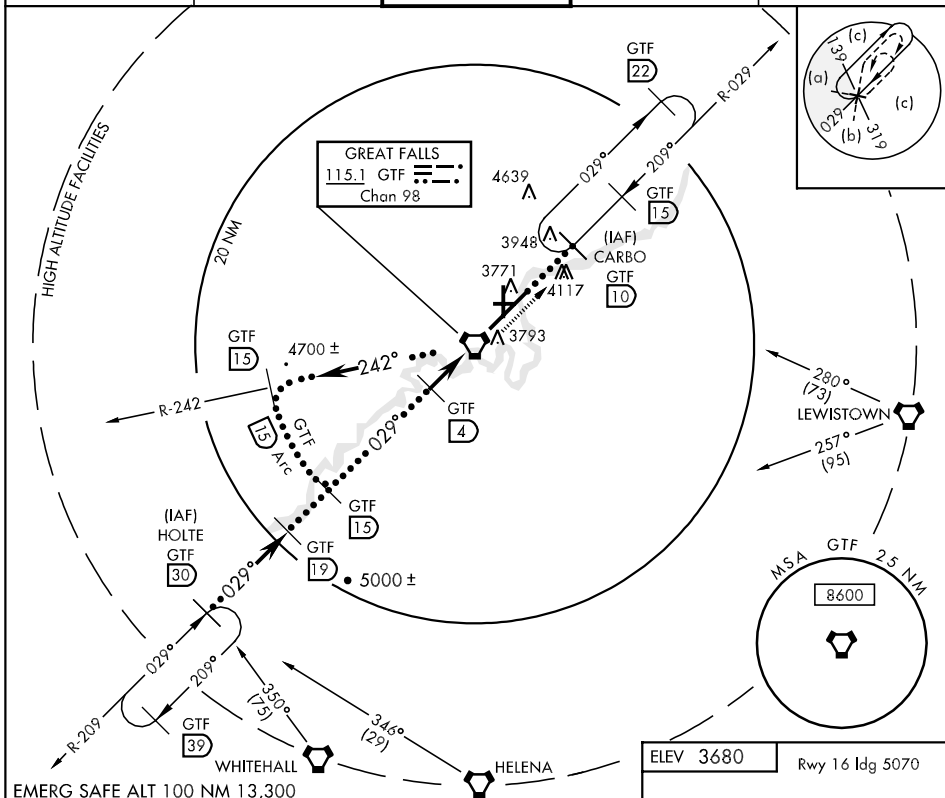
* When ALS inop, increase CAT DE RVR to 60 and vis to 1¼ miles.

ALSF-2

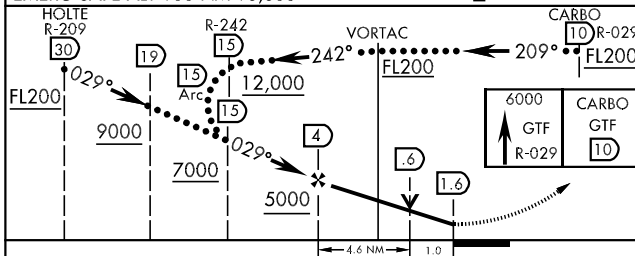


MISSED APPROACH: Climb to 6000 via GTF R-029 to CARBO 10 DME and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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EMERG SAFE ALT 100 NM 13,300



CATEGORY	C	D	E
S-3 *	4060/24 386 (400-½)	4060/50 386 (400-1)	
CIRCLING	4140-1½ 466 (500-1½)	4240-2 566 (600-2)	4420-2¾ 746 (800-2¾)

GREAT FALLS, MONTANA

47°29'N-111°22'W

GREAT FALLS INTL (KGTF)

Amdt 2 09099

HI-VOR/DME or TACAN Rwy 3

VORTAC GTF
115.1
Chan 98

APCH CR
209°

Rwy Idg	10,502
TDZE	3665
Arpt Elev	3680

JAL-177 [USAF]

GREAT FALLS INTL (KGTF)

MISSED APPROACH: Climbing right turn to 6000 heading 350°, intercept GTF 12 DME Arc to ABORN 12 DME and hold.

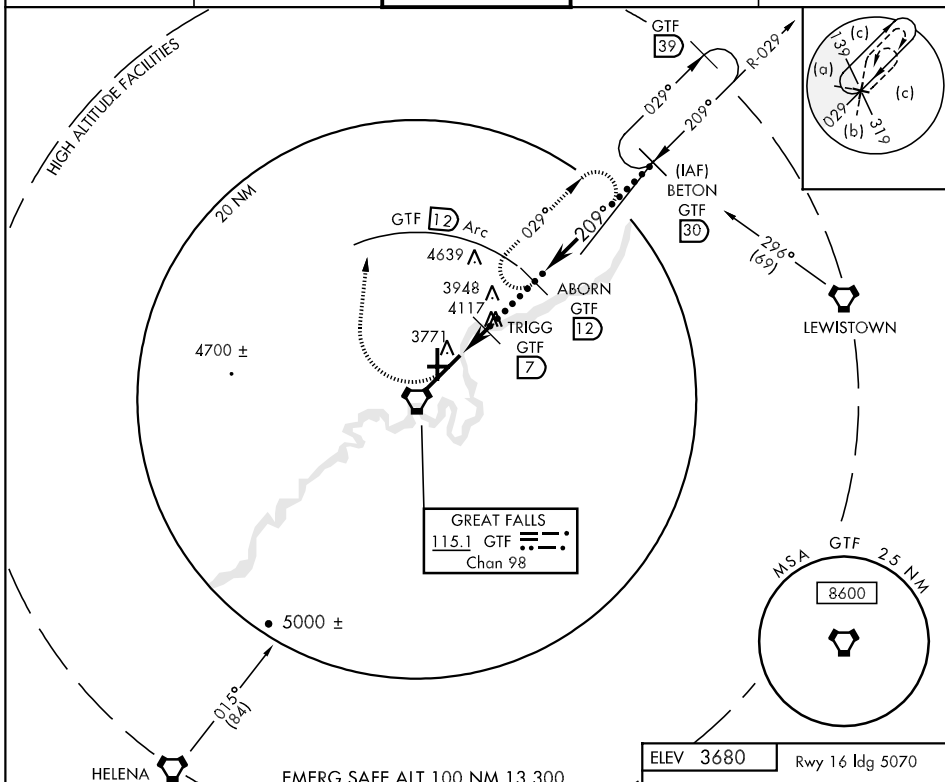
ATIS
126.6 269.0

GREAT FALLS APP CON
128.6 259.1

GREAT FALLS TOWER
118.7 282.2

GND CON
121.7 348.6

CLNC DEL
121.7 348.6

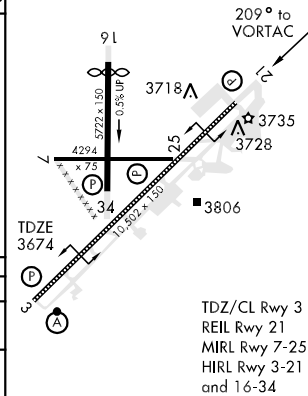
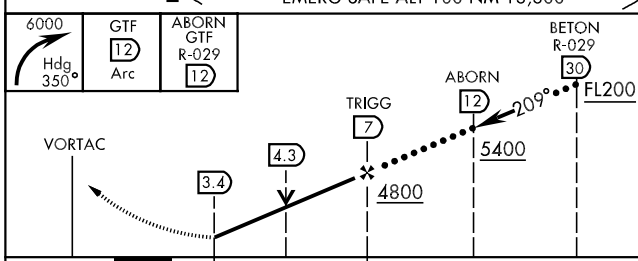


NW-1, 14 JAN 2010 to 11 FEB 2010

EMERG SAFE ALT 100 NM 13,300

ELEV 3680

Rwy 16 Idg 5070



TDZ/CL Rwy 3
REIL Rwy 21
MIRL Rwy 7-25
HIRL Rwy 3-21
and 16-34

GREAT FALLS, MONTANA

47°29'N-111°22'W

GREAT FALLS INTL (KGTF)

09099

LOC/DME I-SMR 111.3 Chan 50	APP CRS 029°	Rwy Idg 10502 TDZE 3680 Apt Elev 3680
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ILS or LOC/DME RWY 3
GREAT FALLS INTL (GTF)



ALSF-2



MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.

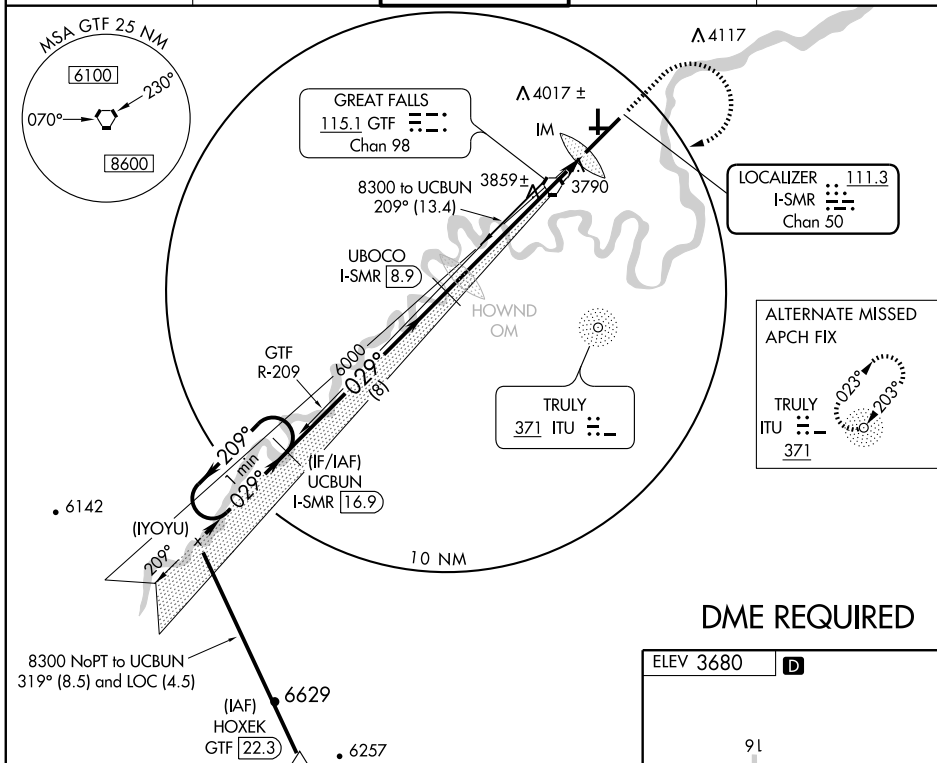
ATIS
126.6 269.0

GREAT FALLS APP CON
128.6 259.1

GREAT FALLS TOWER
118.7 282.2

GND CON
121.7 348.6

CLNC DEL
121.7 348.6



Use I-SMR DME when on the localizer course.

One Minute Holding Pattern

UCBUN
I-SMP 169

5000
↑

830

GTF

 1151

GTF
R-209

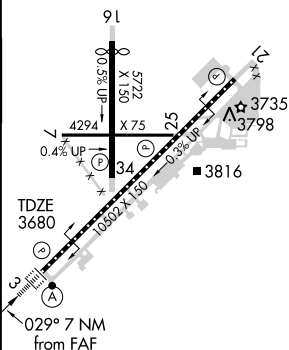
UCBUN
GTF
13.4)

8300 ← 209°

GS 3.00°
TCH 54

CATEGORY	A	B	C	D
S-ILS 3	3880/18 200 (200-½)			
S-LOC 3	4160/24	480 (500-½)	4160/40 480 (500-¾)	4160/50 480 (500-1)
CIRCLING	4160-1	480 (500-1)	4160-1½ 480 (500-1½)	4240-2 560 (600-2)

ELEV 3680



TDZ/CL Rwy 3
MIRL Rwy 7-25
REIL Rwy 21

HIRL Rwy 3-21 and 16-34

ILS RWY 3 (CAT II)
GREAT FALLS INTL (GTF)

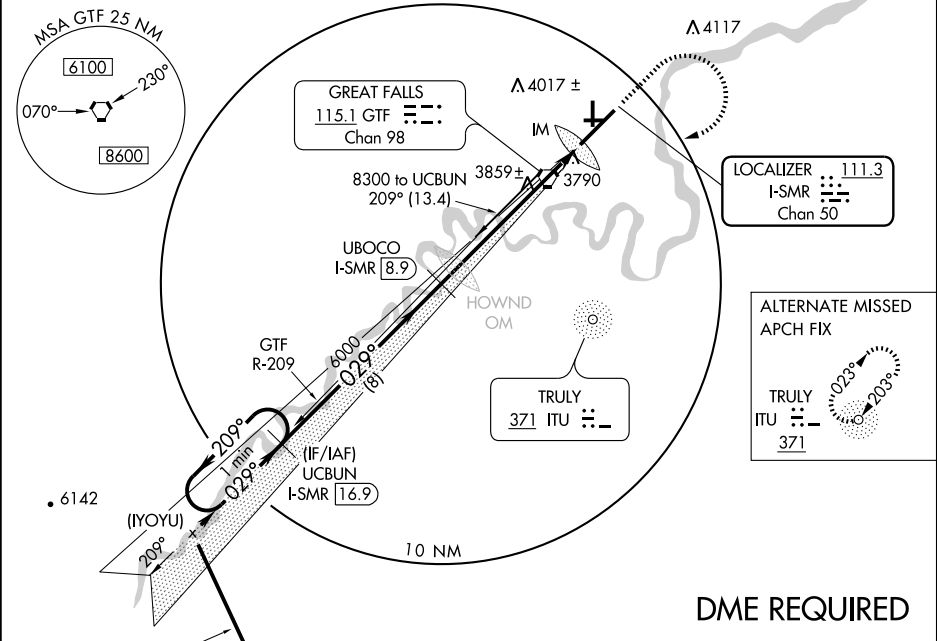
LOC/DME I-SMR	APP CRS	Rwy Idg	10502
111.3	029°	TDZE	3680
Chan 50		Apt Elev	3680

ALSIF-2



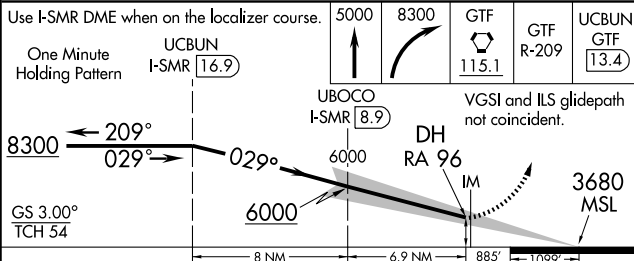
MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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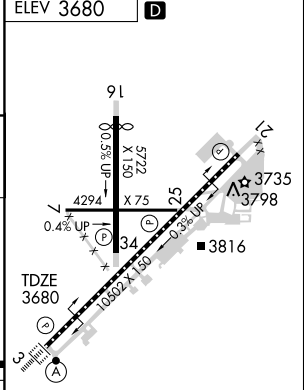


DME REQUIRED

Use I-SMR DME when on the localizer course.	5000	8300	GTF	GTF	UCBUN
One Minute Holding Pattern	UCBUN I-SMR 16.9		115.1	R-209	13.4



CATEGORY	A	B	C	D
S-ILS 3	RA 96/12 100 DA 3780			



CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 3
MIRL Rwy 7-25
REIL Rwy 21
HIRL Rlys 3-21 and 16-34

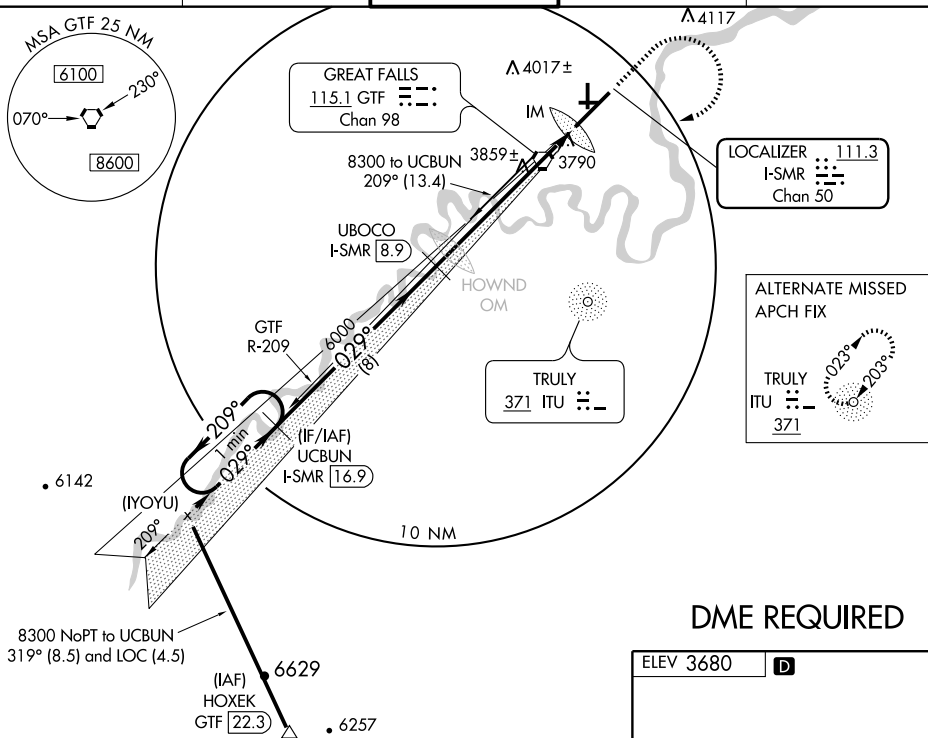
ILS RWY 3 (CAT III)
GREAT FALLS INTL (GTF)

T

ALSF-2

MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.

CLNC DEL
121.7 348.6



DME REQUIRED

ELEV 3680

D

Use I-SMR DME when on the localizer course.

One Minute Holding Pattern

UCBUN
I-SMR 16.9

5000

8300

GTF

115.1

GTF
R-209

UCBUN
GTF
13.4

UBOCO
I-SMP 89

VGSI and ILS glidepath
not coincident.

$$\frac{8300}{\text{---}} \begin{array}{c} \leftarrow 209^\circ \\ 029^\circ \rightarrow \end{array} \quad \left| \quad \begin{array}{c} \text{---} \\ 029^\circ \end{array}$$

GS 3.00°
TCH 54

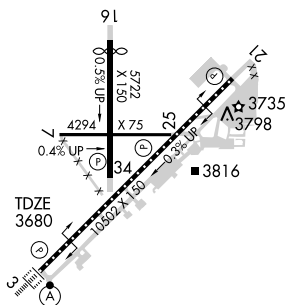
A diagram of a 1D lattice with a unit cell of length 8 nm. The lattice is represented by a horizontal line with a vertical tick mark at the left end and another vertical tick mark at the right end, with the text "8 nm" between them.

— 6.9 NM —→

4	
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CATEGORY	A	B	C	D
S-ILS 3		CAT IIIa	RVR 07	
S-ILS 3		CAT IIIb	RVR 06	
S-ILS 3		CAT IIIc	NA	

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED



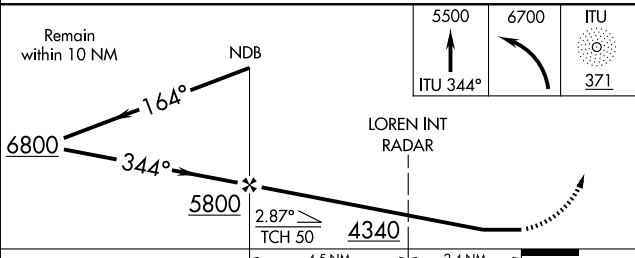
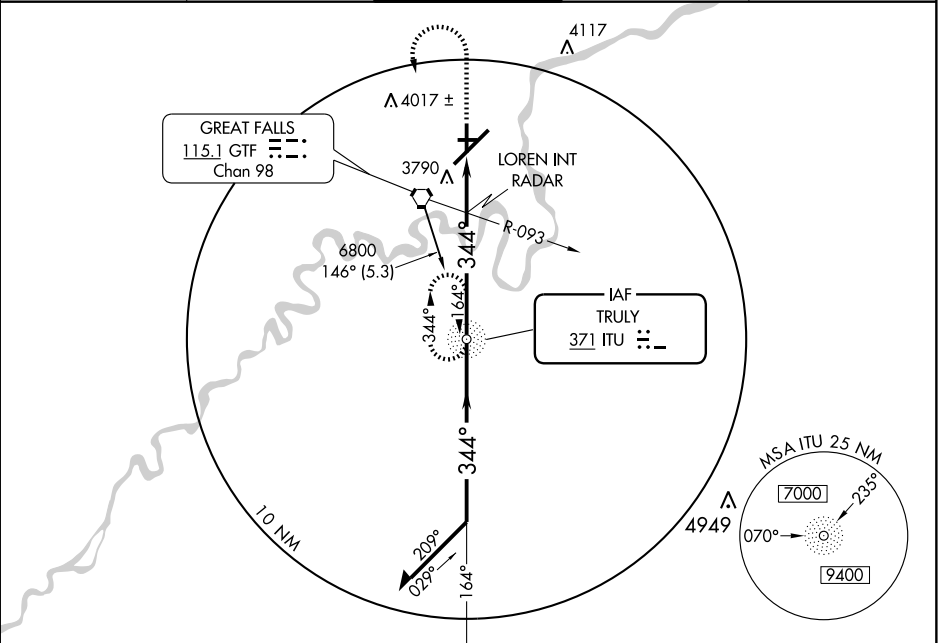
TDZ/CL Rwy 3
MIRL Rwy 7-25
REIL Rwy 21
HIRL Rwy 3-21 and 16-34

▼

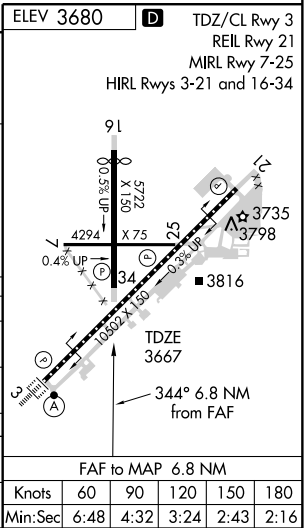
▲

MISSED APPROACH: Climb to 5500 via ITU NDB 344° bearing, then left turn to 6700 direct ITU NDB and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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CATEGORY	A	B	C	D
S-34	4340-1 673 (700-1)	4340-2 673 (700-2)	4340-2 673 (700-2)	4340-2 673 (700-2)
CIRCLING	4340-1 660 (700-1)	4340-2 660 (700-2)	4340-2 660 (700-2)	4340-2 660 (700-2)
LOREN INT/RADAR MINIMUMS				
S-34	4120-1 453 (500-1)	4120-1 453 (500-1)	4120-1 453 (500-1)	4120-1 453 (500-1)
CIRCLING	4120-1 440 (500-1)	4140-1 460 (500-1)	4140-1 460 (500-1)	4240-2 560 (600-2)



WAAS CH 70602 W03A	APP CRS 029°	Rwy Idg 10502 TDZE 3680 Apt Elev 3680
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RNAV (GPS) RWY 3
GREAT FALLS INTL (GTF)



For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -22°C (-7°F) or above 42°C (107°F).

ALSF-2

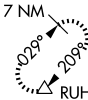


MISSED APPROACH: Climb to 6200 direct HULJY
and via 029° track to RUHQY and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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Procedure NA for arrivals at GTF VORTAC via
V536 northbound and V120 eastbound.

MISSED APCH FIX



HULJY

4117

Δ 4017±

RW03

8000 to UCBUN
209° (13.4)

3791
GREAT FALLS
GTF

(IAF)
GUGYI

8000 NoPT
11.9°
(7.5)

8000

029°
(18)

(FAF)
UBOCO

(IF/IAF)
UCBUN

8000 NoPT
22.9°
(5.2)

(IAF)
ETIJO

7 NM

209°

029°

8000 NoPT
024° (24.3)

(IAF)
WOKEN

MSA RW03 2.5 NM

8500

VGSI and RNAV glidepath not coincident

7 NM
Holding Pattern

UCBUN

UBOCO

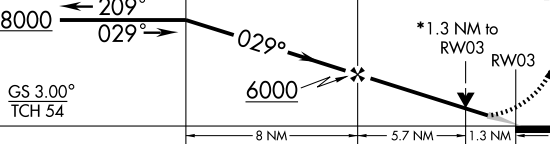
6200

HULJY

029° track

RUHQY

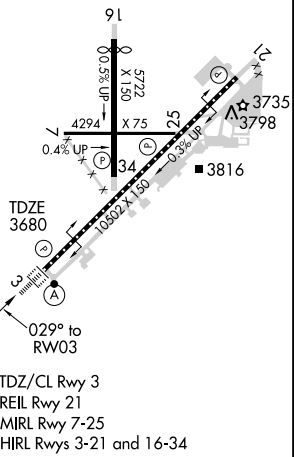
* LNAV only



CATEGORY	A	B	C	D
LPV DA	3930/24 250 (300-½)			
LNAV/VNAV DA	4067/40 387 (400-¾)			
LNAV MDA	4160/24 480 (500-½)		4160/40 480 (500-¾)	4160/50 480 (500-1)
CIRCLING	4160-1 480 (500-1)		4160-1½ 480 (500-1½)	4240-2 560 (600-2)

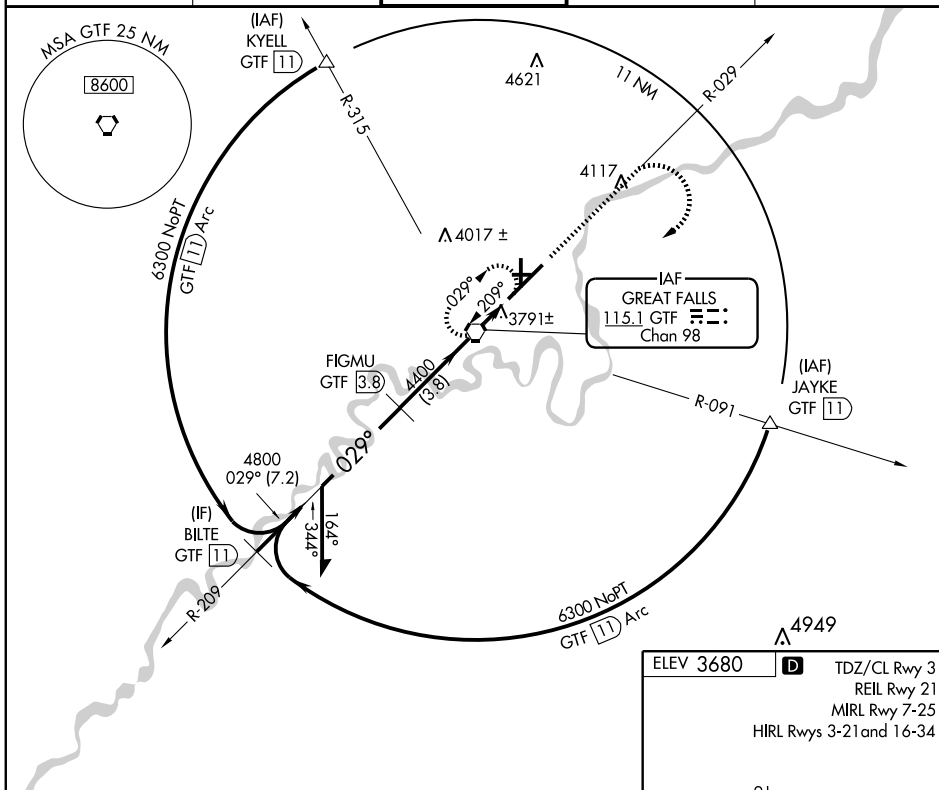
ELEV 3680

D

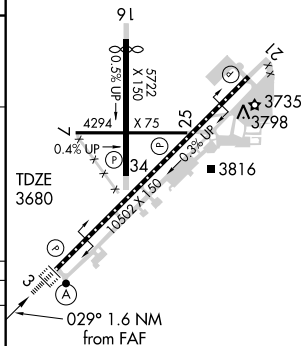


MISSED APPROACH: Climb to 5000 via GTF VORTAC R-029 then climbing right turn to 6300 direct GTF VORTAC and hold, continue climb-in-hold to 6300.

CLNC DEL
121.7 348.6



CATEGORY	A	B	C	D
S-3	4060/24 380 (400-½)			4060/50 380 (400-1)
CIRCLING	4120-1 440 (500-1)	4140-1 460 (500-1)	4140-1½ 460 (500-1½)	4240-2 560 (600-2)

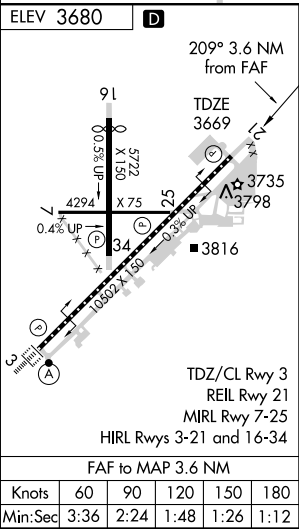
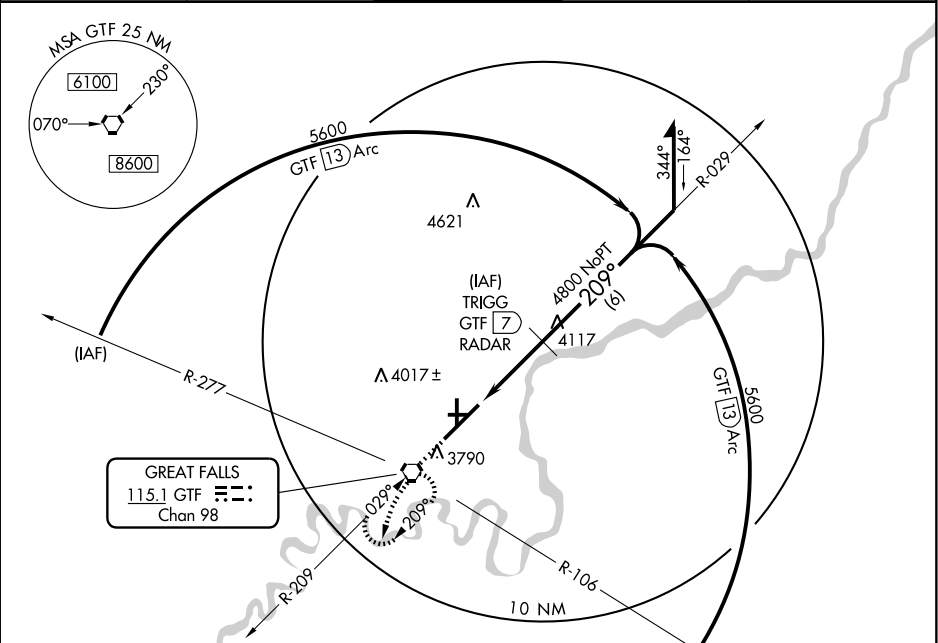


VORTAC GTF	APP CRS	Rwy Idg	10502
115.1	209°	TDZE	3669
Chan 98		Apt Elev	3680

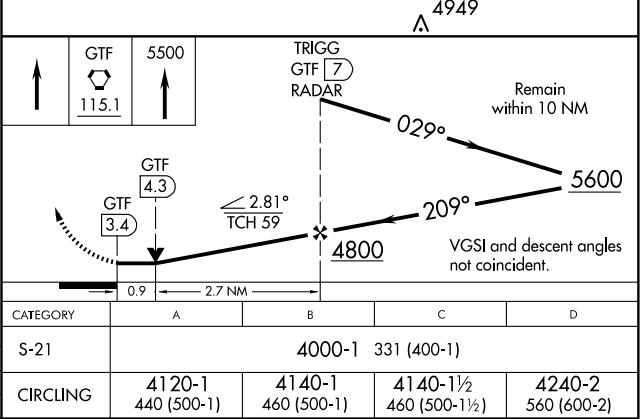
VOR RWY 21
GREAT FALLS INTL (GTF)

	MISSED APPROACH: Climb direct to GTF VORTAC continue climb to 5500 in GTF VORTAC holding pattern.
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ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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DME or RADAR REQUIRED



HAMEY ONE DEPARTURE (RNAV) (OBSTACLE)

SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

TAKE-OFF MINIMUMS

Rwy 16: NA, Obstacles.

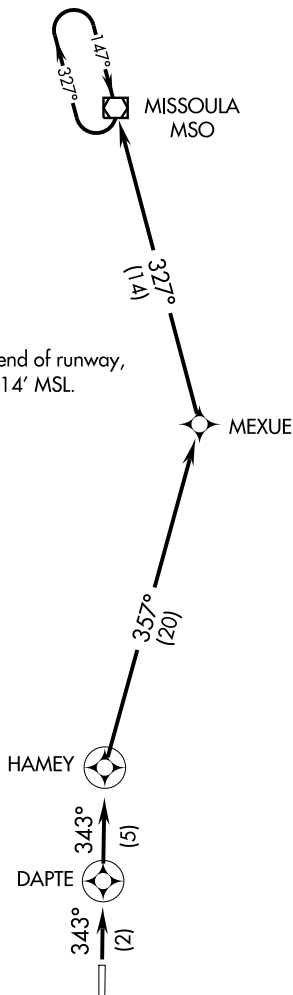
Rwy 34: Standard.

TAKE-OFF OBSTACLES

Rwy 34: tree 1044' from departure end of runway,
258' right of centerline, 80' AGL/3714' MSL.

Rwy 16: NA, Obstacles.

NOTE: 1. GPS Required.
2. RNAV 1



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Not authorized, Obstacles.

TAKE-OFF RWY 34: Climb to 9000 direct DAPTE WP, direct HAMEY WP, then via depicted route to MSO VOR/DME, Thence....

....all aircraft climb in MSO VOR/DME holding pattern (hold NW, RT, 147° inbound) to cross MSO VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

APP CRS
163°

Rwy Idg
TDZE
Apt Elev

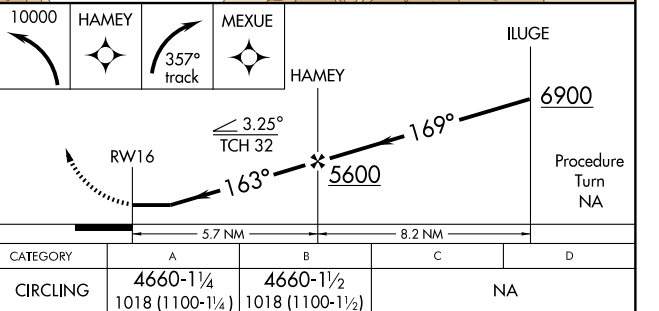
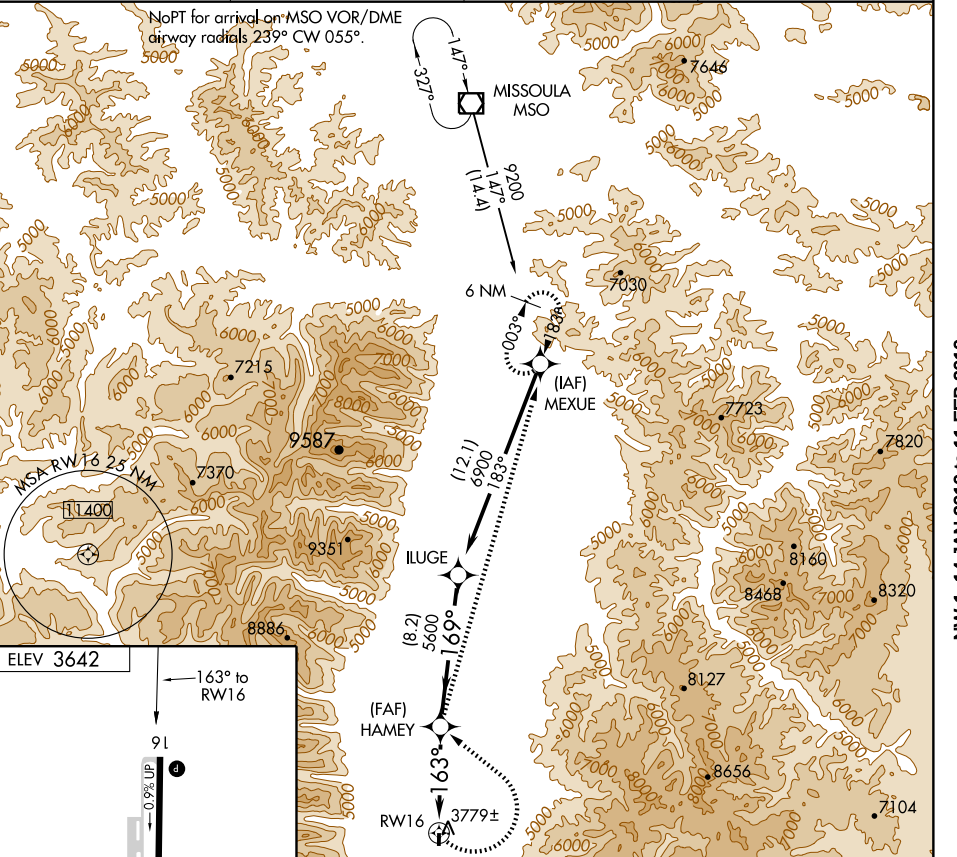
N/A
N/A
3642

HAMILTON/ RAVALLI COUNTY (6S5)

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 10000 direct HAMEY WP and right turn via 357° track to MEXUE WP and hold.

AWOS-A 119.825	SPOKANE APP CON* 124.9 298.95	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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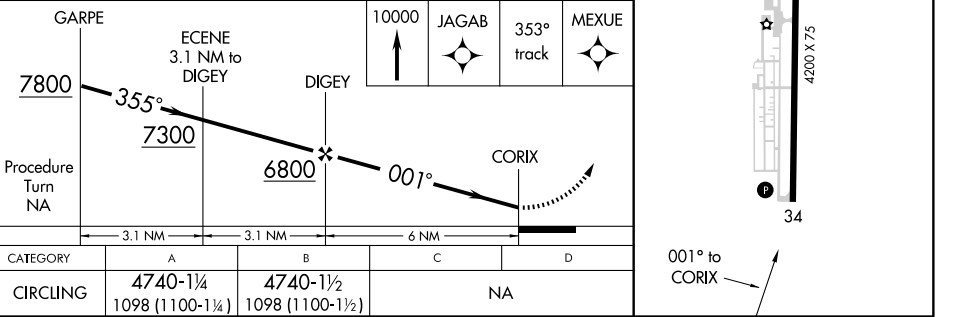
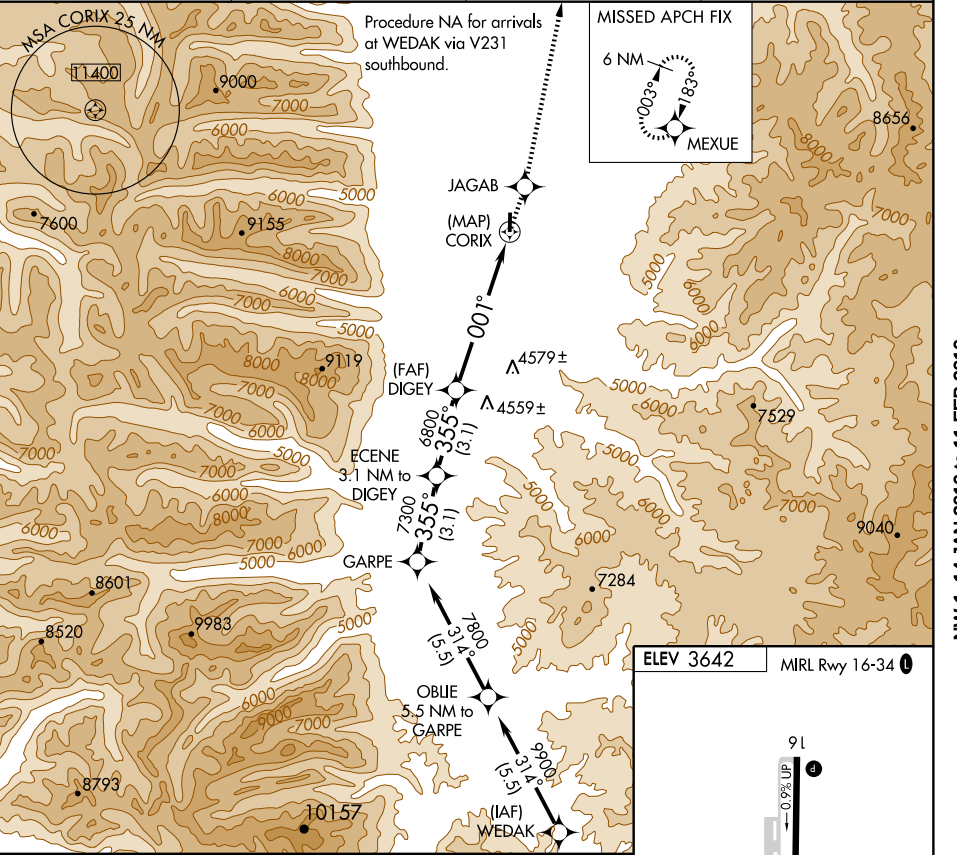
▼

▲ NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Obtain local altimeter setting on CTAF; when not received, procedure NA.
Procedure NA at night.

MISSED APPROACH: Climb to 10000 direct JAGAB WP and via 353° track to MEXUE WP and hold.

AWOS-A 119.825	SPOKANE APP CON★ 124.9 298.95	SALT LAKE CITY CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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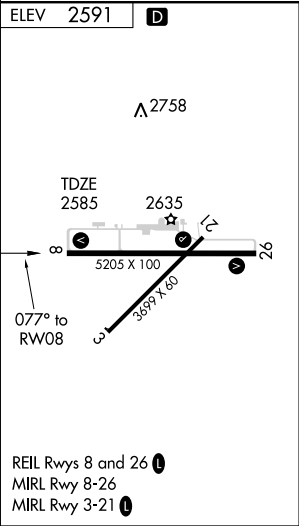
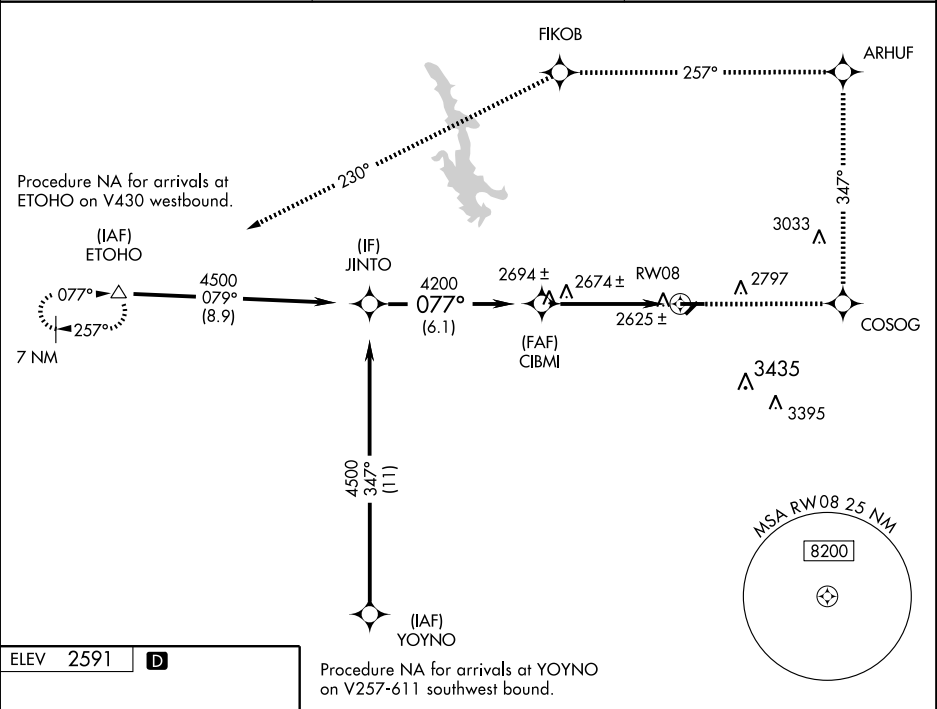


WAAS CH 99316 W08A	APP CRS 077°	Rwy Idg TDZE Apt Elev	5205 2585 2591
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RNAV (GPS) RWY 8
HAVRE CITY-COUNTY(HVR)

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 8000 direct COSOG and left turn via track 347° to ARHUF and left turn via track 257° to FIKOB and via track 230° to ETOHO and hold.
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ASOS 135.225	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 0
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Procedure Turn NA	8000	COSOG	ARHUF	FIKOB	ETOHO
JINTO	↑	✧	trk 347°	trk 257°	✧
4500					
CIBMI					
4200					
GS 3.00°					
TCH 40					
	6.1 NM	3.6 NM	1.3 NM		
CATEGORY	A	B	C	D	
LPV DA	2835-1 250 (300-1)				
LNAV/VNAV DA	2906-1¼ 321 (400-1¼)				
LNAV MDA	3020-1	435 (500-1)	3020-1¼ 435 (500-1¼)	3020-1½ 435 (500-1½)	
CIRCLING	3060-1 469 (500-1)	3100-1 509 (600-1)	3100-1½ 509 (600-1½)	3160-2 569 (600-2)	

RNAV (GPS) RWY 26

HAVRE CITY-COUNTY (HVR)

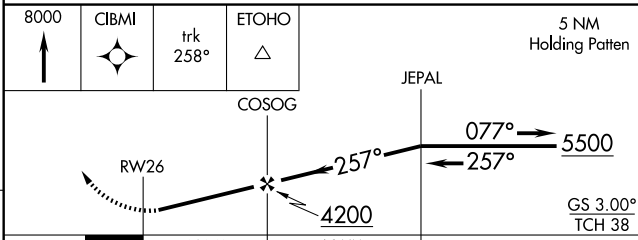
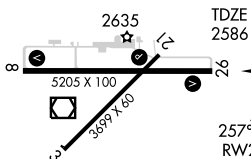
MISSED APPROACH: Climb to 8000
direct CIBMI and via track 258° to ETOHO
and hold, continue climb-in-hold to 8000.

UNICOM
122.8 (CTAF) **L**



Diagram of a 7 nm radius circular arc. The arc is defined by a central angle of 77° and a subtended angle of 257° . The radius is labeled as 7 nm.

D



CATEGORY	A	B	C	D
LPV DA	2836-1 250 (300-1)			
LNAV/ VNAV DA	3097-1 $\frac{3}{4}$ 511 (600-1 $\frac{3}{4}$)			
LNAV MDA	3060-1 474 (500-1)	3060-1 $\frac{1}{4}$ 474 (500-1 $\frac{1}{4}$)	3060-1 $\frac{1}{2}$ 474 (500-1 $\frac{1}{2}$)	3160-2 569 (600-2)
CIRCLING	3060-1 469 (500-1)	3100-1 509 (600-1)	3100-1 $\frac{1}{2}$ 509 (600-1 $\frac{1}{2}$)	3160-2 569 (600-2)

MIRL Rwy 3-21 **L**

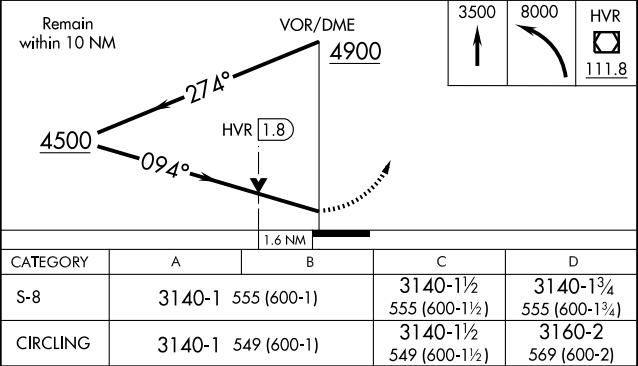
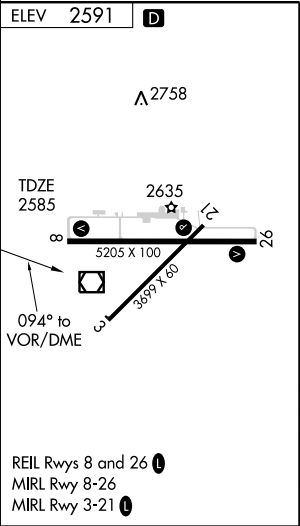
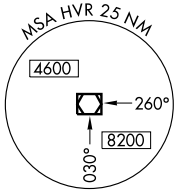
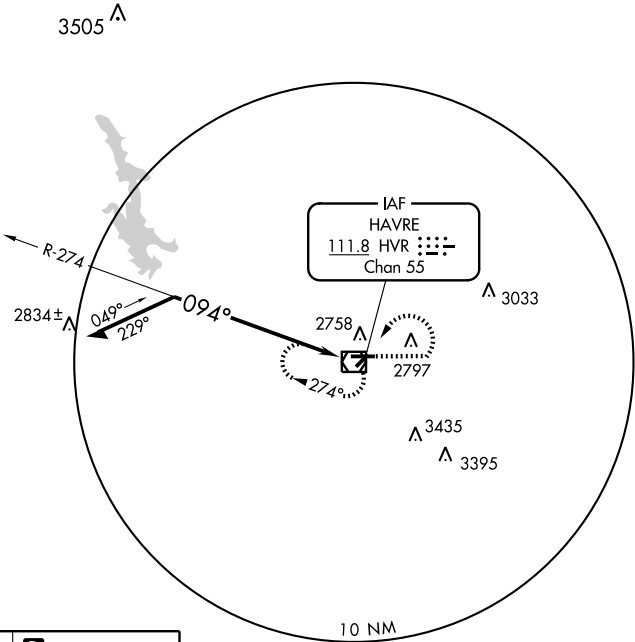
VOR/DME HVR 111.8 Chan 55	APP CRS 094°	Rwy Idg TDZE Apt Elev	5205 2585 2591
---	------------------------	-----------------------------	---

VOR RWY 8
HAVRE CITY-COUNTY(HVR)



MISSED APPROACH: Climb to 3500 then climbing left turn to 8000 direct HVR VOR/DME and hold, continue climb-in-hold to 8000.

ASOS 135.225	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 1
------------------------	------------------------------------	--



VOR/DME HVR 111.8 Chan 55	APP CRS 244°	Rwy Idg 5205 TDZE 2586 Apt Elev 2591
---	------------------------	---

VOR RWY 26
HAVRE CITY-COUNTY (HVR)

T	Visibility reduction by helicopters NA.
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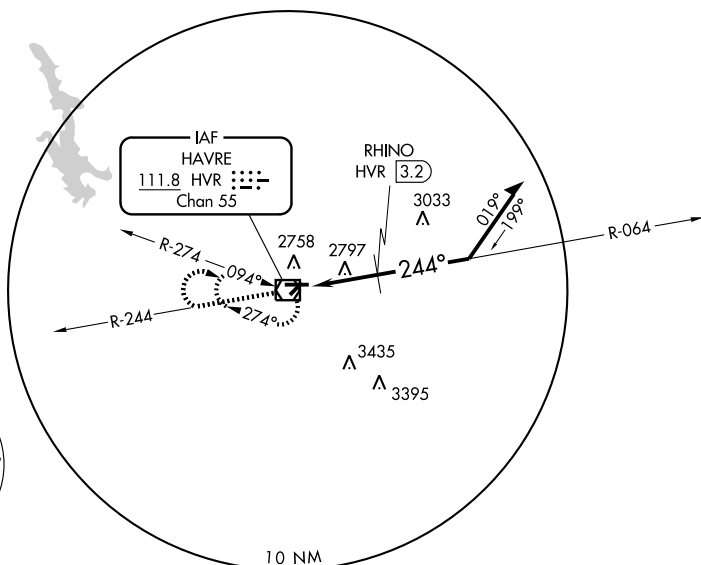
MISSED APPROACH: Climb to 4500 then climbing right turn to 8000 direct HVR VOR/DME and hold, continue climb-in-hold to 8000.

ASOS
135.225

GREAT FALLS RADIO
123.65

UNICOM
122.8 (CTAF) **L**

3505^Δ



MSA HVR 25 NM

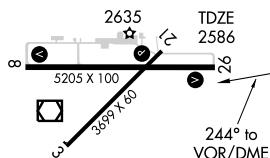
4600

8200

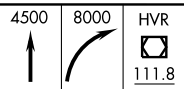
ELEV	2591	D
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D

Δ²⁷⁵⁸

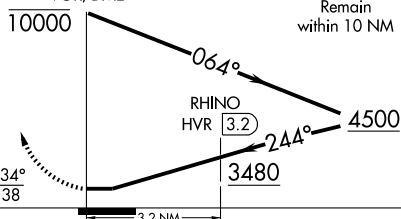


VOR/DME



VOR/DME

Remain
within 10 NM



VGSI and descent
angles not coincident.

$$\frac{\angle 3.34^\circ}{TCH\ 39}$$

CATEGORY	A	B	C	D
S-26	3480-1¼	894 (900-1¼)	3480-2¾ 894 (900-2¾)	3480-3 894 (900-3)
CIRCLING	3480-1¼	889 (900-1¼)	3480-2¾ 889 (900-2¾)	3480-3 889 (900-3)

RHINO FIX MINIMUMS

S-26	3060-1 474 (500-1)		3060-1¼ 474 (500-1¼)	3060-1½ 474 (500-1½)
CIRCLING	3060-1 469 (500-1)	3100-1 509 (600-1)	3100-1½ 509 (600-1½)	3160-2 569 (600-2)

REIL Rwys 8 and 26 **L**

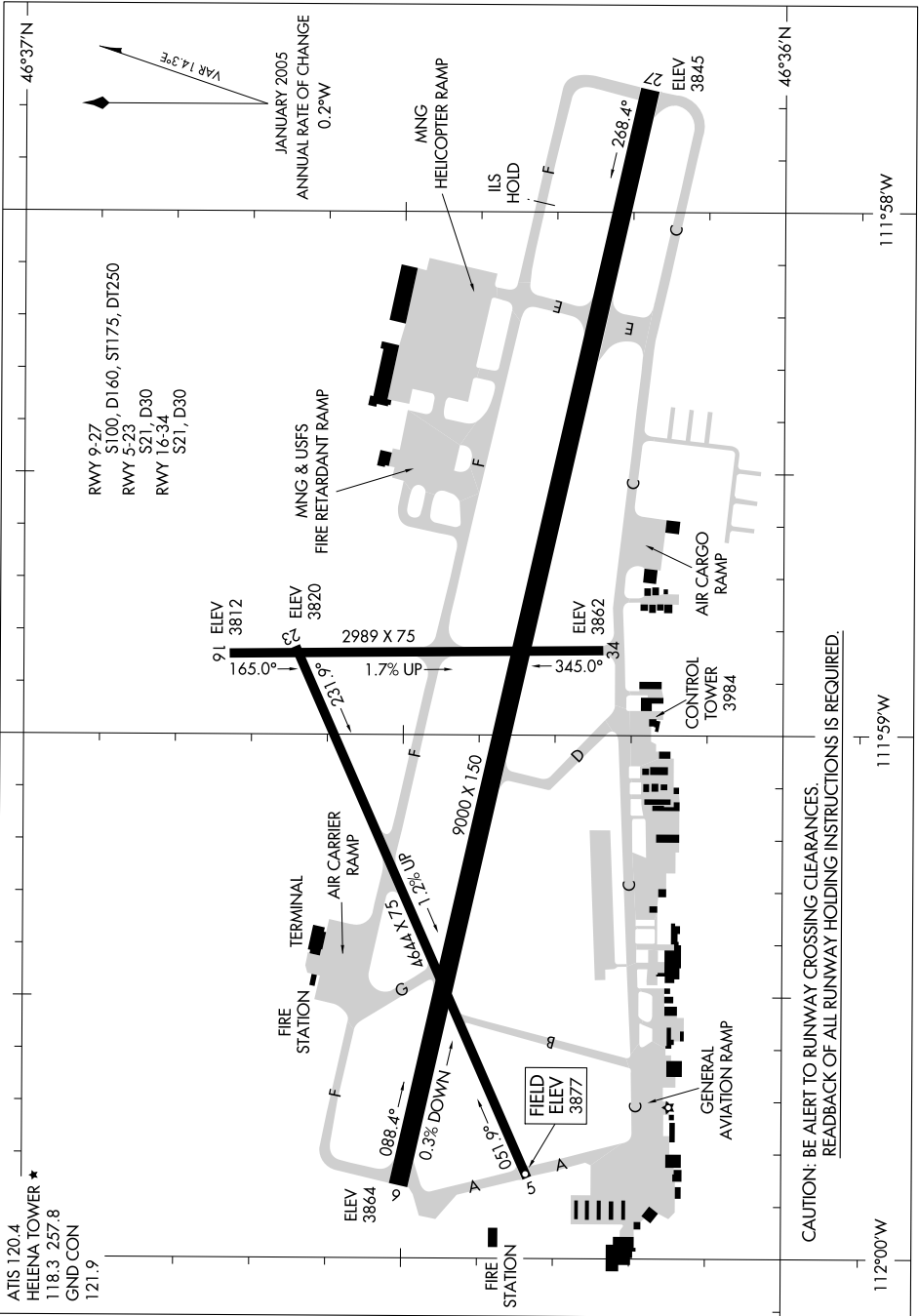
MIRL Rwy 8-26

MIRL Rwy 3-21 **L**

AIRPORT DIAGRAM

AL-192 (FAA)

HELENA RGNL (HNL)
HELENA, MONTANA



VORTAC HLN
117.7
Chan 124

APCH CRS
251°

Rwy Idg
TDZE
Arpt Elev 3874

AL-192 [USA]

HELENA REGIONAL (KHLN)

NA when tower clsd.

MISSED APPROACH: Climbing right turn to
8000 direct HLN VORTAC and hold.

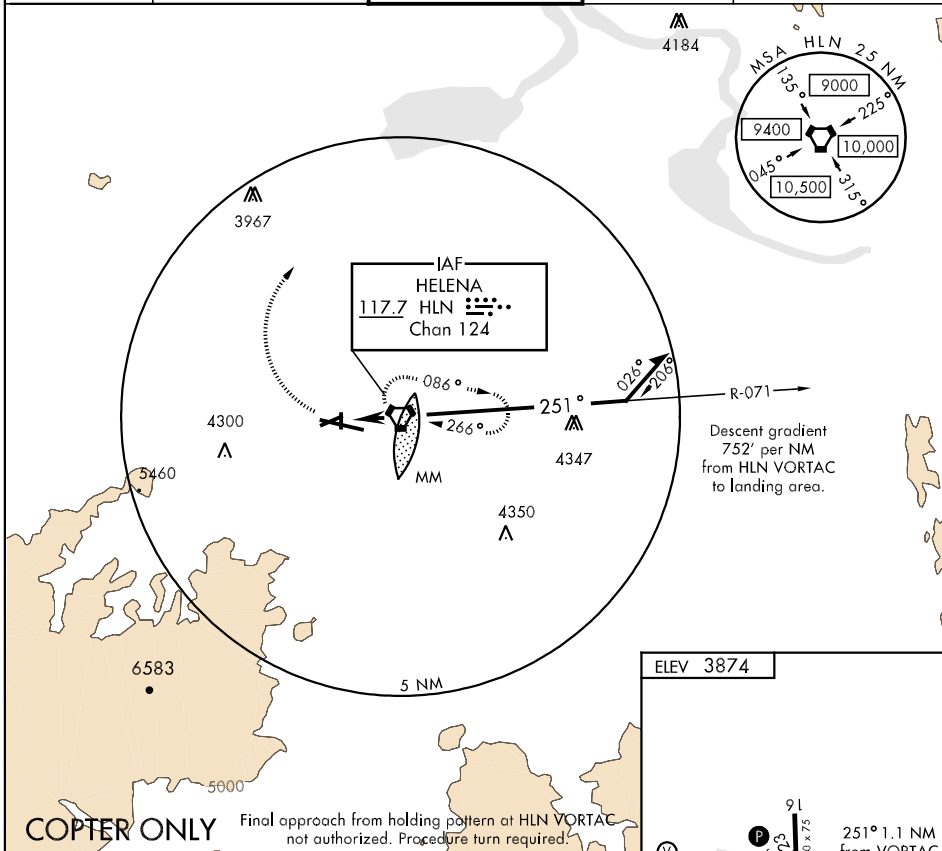
ATIS ★
120.4

HELENA APP CON
119.5 229.4

HELENA TOWER ★
118.3 (CTAF) 0 257.8

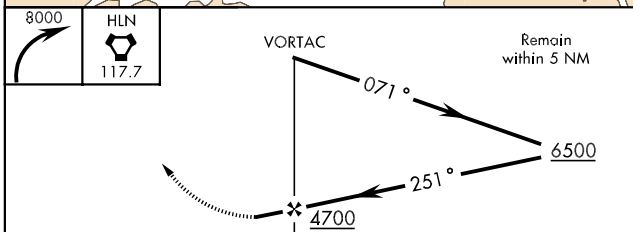
GND CON
121.9

UNICOM
122.95

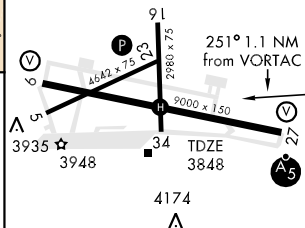


COPTER ONLY

Final approach from holding pattern at HLN VORTAC
not authorized. Procedure turn required.



ELEV 3874

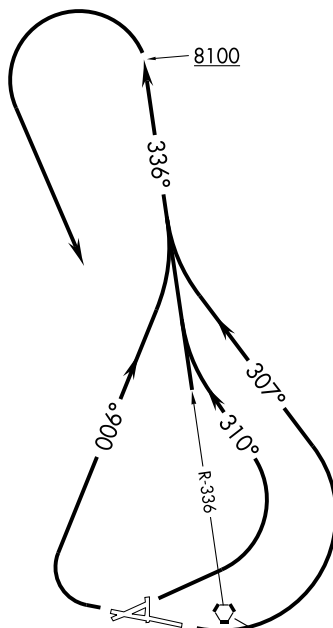


HELENA THREE DEPARTURE

SL-192 (FAA)

HELENA RGNL (HLN)
HELENA, MONTANA

HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4
SALT LAKE CENTER
133.4 285.4

TAKE-OFF MINIMUMS

Rwy 5: Standard with minimum climb of 250 feet per NM to 8100.
Rwy 9: Standard with minimum climb of 240 feet per NM to 8100.
Rwys 16, 23: NA- obstacles.
Rwy 27: Standard with minimum climb of 390 feet per NM to 8100.
Rwy 34: NA- ATC.

HELENA
117.7 HLN
Chan 124
N46° 36.41' - W111° 57.21'
L-13, H-1

TAKE-OFF OBSTACLE NOTES

Rwy 5: Ground beginning 5' from DER, 495' right of centerline, up to 3826' MSL.
Fence beginning 423' from DER, 331' right of centerline, up to 10' AGL/ 3832' MSL.
Rwy 27: Building 1593' from DER, 731' left of centerline, 58' AGL/ 6385' MSL.
Ground beginning 101' from DER, 346' left of centerline, up to 3871' MSL.
Tree 1567' from DER, 616' left of centerline, 47' AGL/ 3906' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 5: Climbing left turn heading 310° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

TAKE-OFF RUNWAY 9: Climbing left turn heading 307° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

TAKE-OFF RUNWAY 27: Climbing right turn heading 006° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

LOC I-HLN

110.1

APP CRS

267°

Rwy Idg TDZE Apt Elev

9000 3852 3877

⚠

Circling NA for Cats. D and E south of Rwy 9-27. Inoperative table does not apply to S-LOC 27 Cats. A-B. For inoperative MALSR, increase S-ILS 27 all Cats. visibility to 2 miles, S-LOC 27 Cat. E visibility to 3 miles, FERRI fix minimums: S-LOC 27 Cat E visibility to 2½ miles. DME arc to final approach required for turbojet aircraft. Holding at HAU NDB authorized for Category A and B aircraft only.

MALSR

MISSED APPROACH: Climb to 4700 then climbing right turn to 9000 via heading 021° and HLN VORTAC R-336 to WOKEN INT and hold.

ATIS	HELENA APP CON *	HELENA TOWER *	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) 257.8	121.9	122.95

ADF or DME REQUIRED					
4700 9000 HLN WOKEN ↑ 021° R-336 117.7 △ FERRI OM HLN 4.4 NDB HLN 8.4 One Minute Holding Pattern					
*LOC only					
MM 5426 5400* 7100* 7400 7400 GS 3.00° TCH 55					
CATEGORY	A	B	C	D	E
S-ILS 27	4402-1½ 550 (600-1½)				
S-LOC 27	5400-1¼ 1548 (1600-1¼)	5400-1½ 1548 (1600-1½)	5400-2½ 1548 (1600-2½)		
CIRCLING	5400-1¼ 1523 (1600-1¼)	5400-1½ 1523 (1600-1½)	5400-3 1523 (1600-3)		
FERRI FIX MINIMUMS *					
S-LOC 27	4560-½ 708 (700-½)	4560-1½ 708 (700-1½)	4560-1¾ 708 (700-1¾)	4560-2 708 (700-2)	
CIRCLING	4640-1 763 (800-1)	4740-2½ 863 (900-2½)	4740-2¾ 863 (900-2¾)	4840-3 963 (1000-3)	
REIL Rwy 9 1					
MIRL Rwy 5-23 and 16-34 1					
HIRL Rwy 9-27 1					
FAF to MAP 8.7 NM					
Knots 60 90 120 150 180					
Min:Sec 8:42 5:48 4:21 3:29 2:54					

NW-1. 14 JAN 2010 to 11 FEB 2010

LOC I-HLN

110.1

APP CRS

267°

Rwy Idg

9000

TDZE

3852

Apt Elev

3877

⚠

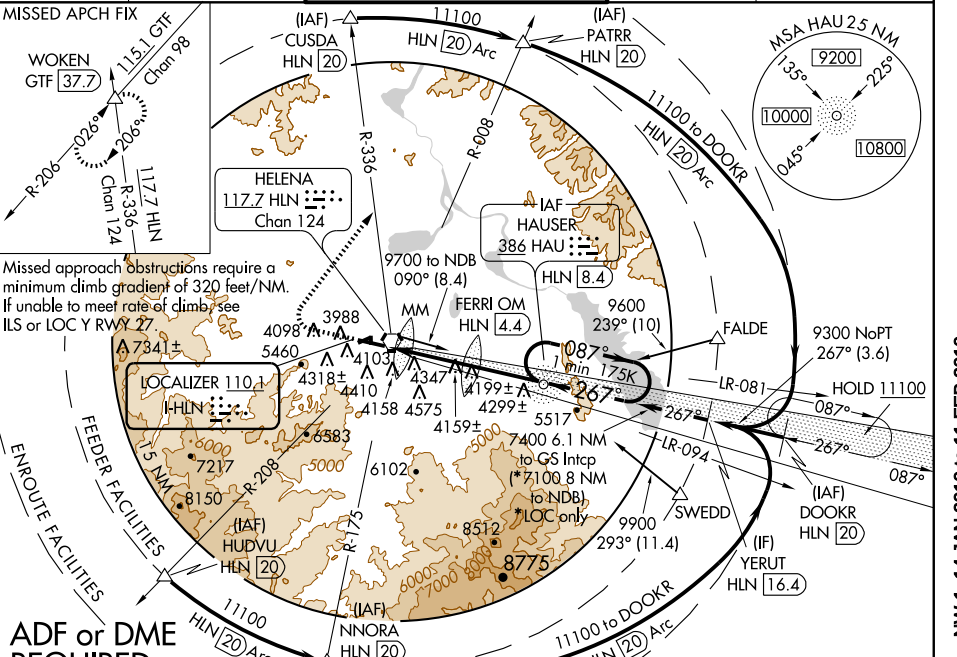
⚠

Circling NA for Cats. D and E south of Rwy 9-27. DME Arc to final approach required for turbojet aircraft. Holding at HAU NDB authorized for Category A and B aircraft only. Inoperative table does not apply to S-LOC 27 Cats. A-B. For inoperative MALSR, increase S-LOC 27 Cat. E visibility to 3 miles, FERRI fix minimums: S-LOC 27 Cat E visibility to 3 miles.

MALSR

MISSED APPROACH: Climb to 4400 then climbing right turn to 9000 via heading 021° and HLN VORTAC R-336 to WOKEN INT and hold.

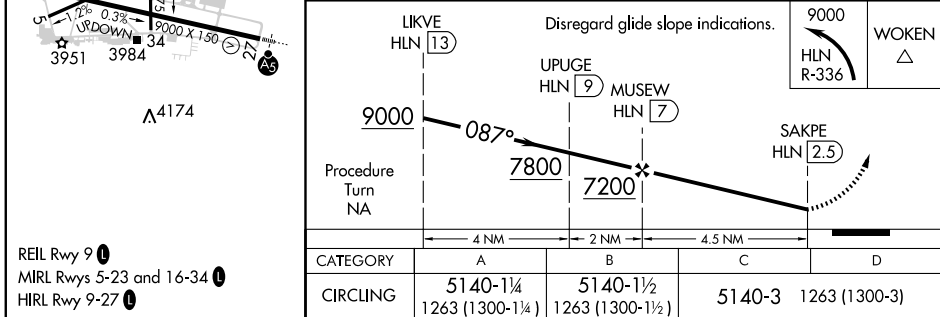
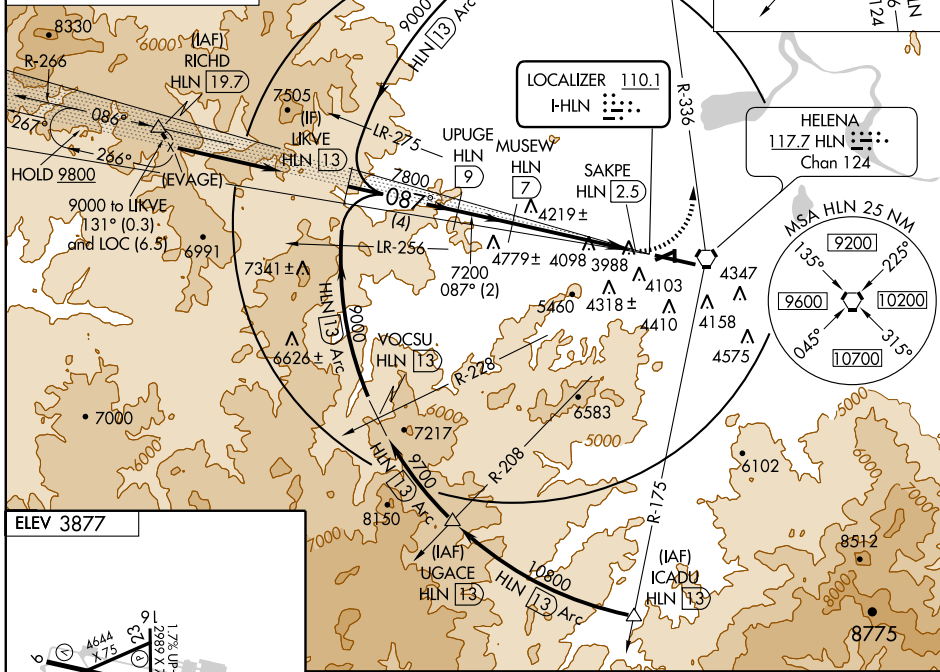
ATIS	HELENA APP CON *	HELENA TOWER *	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) 257.8	121.9	122.95



NW-1. 14 JAN 2010 to 11 FEB 2010

▼ DME from HLN VORTAC, simultaneous reception of I-HLN and HLN DME required. ▲ Circling NA south of Rwy 9-27 for Cat D.	MISSED APPROACH: Climbing left turn to 9000 via HLN VORTAC R-336 to WOKEN INT and hold.
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Map of the Back Course area. The map shows the coastline of the Back Course area. Key locations include Helena HLN (117.7 Chan 124) and Woken GTF (115.1 Chan 98). The map also shows the Back Course area, the Helena HLN, and the Woken GTF. The map includes a scale bar for 10 NM and a compass rose indicating the direction of the Back Course.

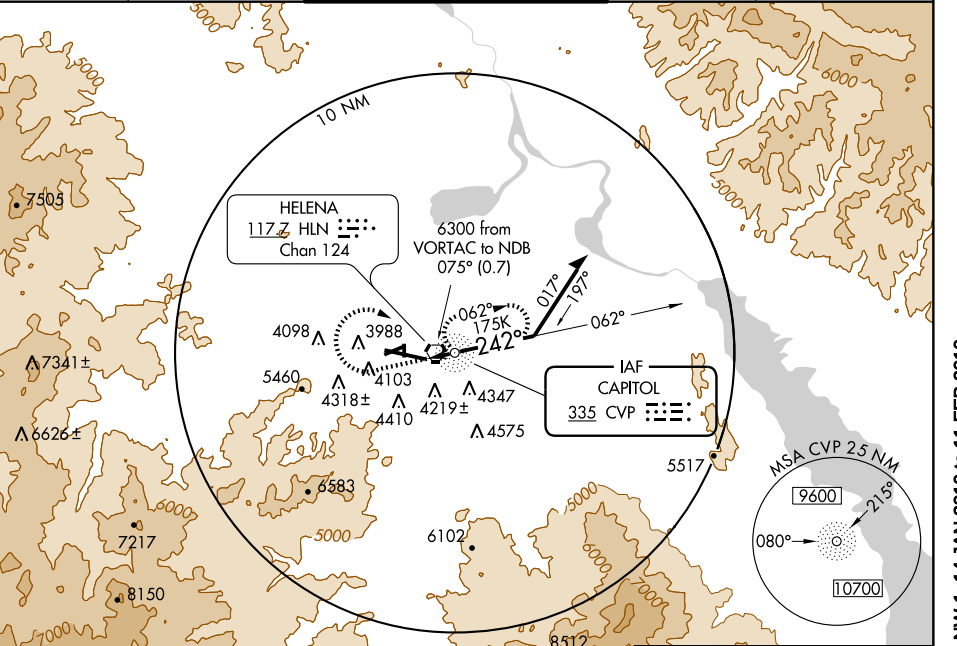


NDB CVP	APP CRS	Rwy Idg TDZE	N/A
335	242°	Apt Elev	3877

▼
▲

MISSED APPROACH: Climb to 5200, then climbing right turn to 6400 direct CVP NDB and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 3877

REIL Rwy 9

MIRL Rwy 5-23 and 16-34

HIRL Rwy 9-27

CATEGORY	A	B	C	D	FAF to MAP 1.1 NM					
CIRCLING	4980-1¼	NA			Knots	60	90	120	150	180
	1103 (1200-1¼)				Min:Sec	1:06	0:44	0:33	0:26	0:22

NW-1, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	4644
245°	TDZE	3850
	Apt Elev	3877

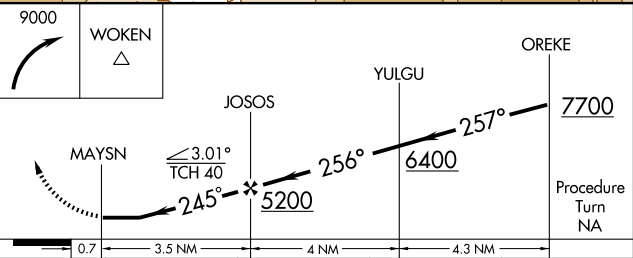
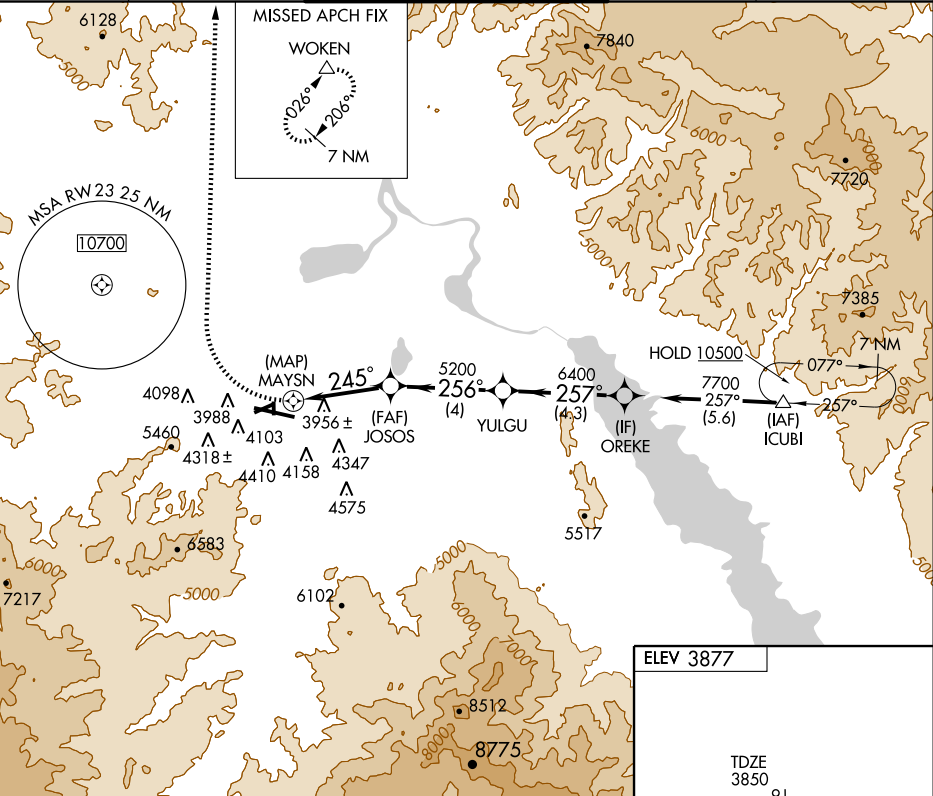
⚠

⚠

Circling NA for Cat D south of Rwy 9/27.
Visibility reduction by helicopters NA.
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 9000 direct WOKEN and hold, continue climb-in-hold to 9000.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 3877

TDZE 3850

91

1.7% UP

2889 X 75

3951

3984

9000 X 150

34

AS

4644

475

1.2% DOWN

0.3%

4174

CATEGORY	A	B	C	D
LNAV MDA	4760-1¼ 910 (900-1¼)	4760-2¾ 910 (900-2¾)	4760-3 910 (900-3)	4760-3 910 (900-3)
CIRCLING	4760-1¼ 883 (900-1¼)	4760-2¾ 883 (900-2¾)	4760-3 883 (900-3)	4760-3 883 (900-3)

REIL Rwy 9

MIRL Rlys 5-23 and 16-34

HIRL Rwy 9-27

WAAS CH 69405 W27A	APP CRS 267°	Rwy Idg TDZE Apt Elev	9000 3852 3877
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RNAV (GPS) X RWY 27

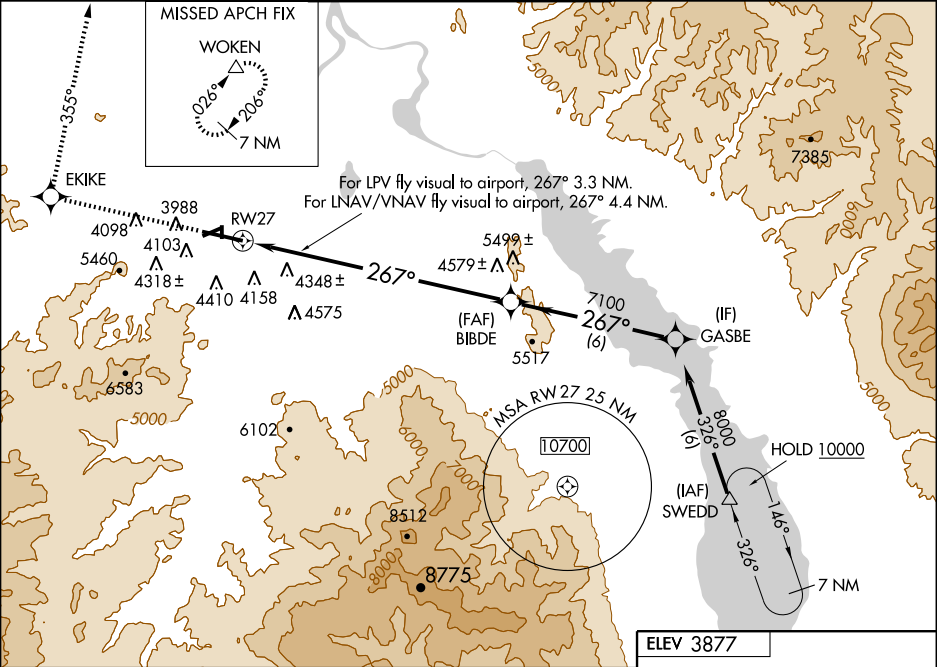
HELENA RGNL (HLN')

⚠ Circling NA for Cat D south of Rwy 9-27.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 42°C (107°F). DME/DME RNP-0.3 NA. Inoperative table does not apply to LNAV Cats A-B.

MALSR

MISSED APPROACH: Climb to 9000 direct EKIKE and via 355° track to WOKEN and hold.

ATIS 120.4	HELENA APP CON * 119.5 229.4	HELENA TOWER * 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 3877

Procedure Turn NA

9000 **355° track**

LPV, fly visual, 267° 3.3 NM.
LNAV/VNAV, fly visual 267° 4.4 NM.

RW27

***4.8 NM to RW27**

***LNAV only**

BIBDE
7100

GASBE
8000

GS 3.00° TCH 55

7100

4.8 NM **5 NM** **6 NM**

CATEGORY	A	B	C	D
LPV DA	4965-2 1113 (1100-2)		4965-3 1113 (1100-3)	
LNAV/VNAV DA	5289-2 1437 (1500-2)		5289-3 1437 (1500-3)	
LNAV MDA	5440-1¼ 1588 (1600-1¼) 5440-1¼ 5440-1½	5440-1½ 1588 (1600-1½)	5440-2½ 1588 (1600-2½)	
CIRCLING	1563 (1600-1¼)	1563 (1600-1½)	5440-3 1563 (1600-3)	

REIL Rwy 9

MIRL Rwy 5-23 and 16-34

HIRL Rwy 9-27

⚠ 4644 475
 2988 X 75
 3951
 3984
 34
 4174
 3852

267° to RW27

1.7% UP
1.2% DOWN
0.3%

9000 X 150

TDZE 3852

⚠

Circling NA for Cat D south of Rwy 9-27.

⚠

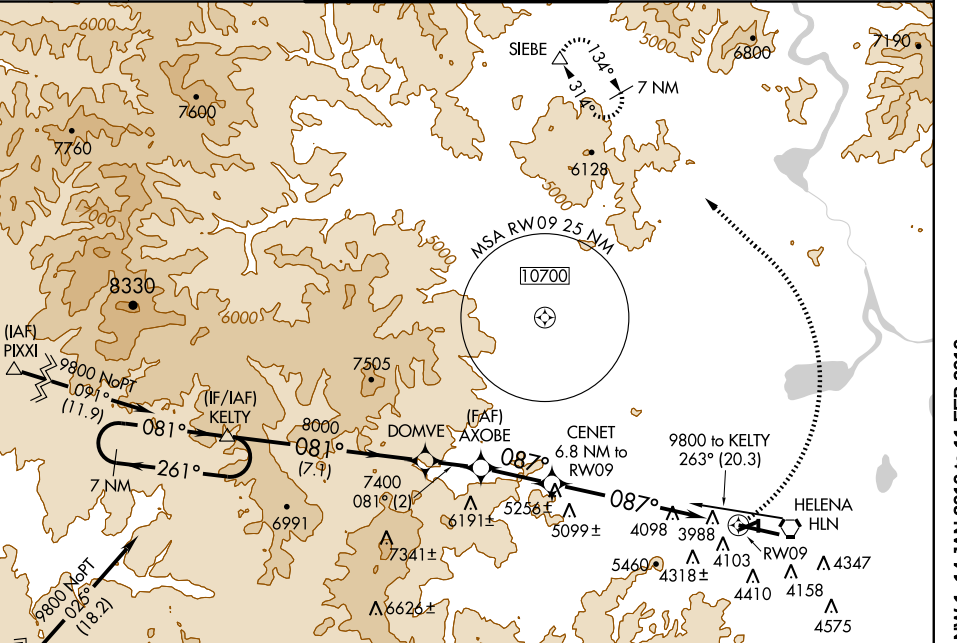
DME/DME RNP- 0.3 NA.

⚠

Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 9000 direct SIEBE and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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7 NM Holding Pattern

KELTY

DOMVE

AXOBE

CENET 6.8 NM to RW09

9000

SIEBE

9800 ← 261°

081° →

081°

8000

7400

6440

RW09

VGSI and descent angles not coincident.

7.1 NM

2 NM

2.6 NM

6.8 NM

ELEV 3877

087° to RW09

TDZE 3864

AGAA 4.75

1.7% UP

1.7% DOWN

0.3%

91 2689 X 75

34 1900 X 150

3951 3984

Λ 4174

CATEGORY	A	B	C	D
LNAV MDA	5440-1¼ 1576 (1600-1¼)	5440-1½ 1576 (1600-1½)	5440-3 1576 (1600-3)	
CIRCLING	5440-1¼ 1563 (1600-1¼)	5440-1½ 1563 (1600-1½)	5440-3 1563 (1600-3)	

REIL Rwy 9

MIRL Rwy 5-23 and 16-34

HIRL Rwy 9-27

NW-1. 14 JAN 2010 to 11 FEB 2010

Procedure NA for arrivals on HIA VORTAC for arrivals on HIA VORTAC 276 CW 185 and for arrivals on HLN VORTAC airway radials 009 CW 265 and for arrivals at SUZZY via V343 westbound.

REQD (RNP 0.50) (IAF) ELENA HLN 3956

267° 4347 (8) 4575 0000

(FAF) JEXUT 5300 267° (S) 5517 (IF) BOSCA

7200 222° (6.5) 9300 169° (21) 7385 (IAF) URELE (RNP 0.50)

9000 223° 223° 9000 254° (15.2) (IAF) LINGE (RNP 0.50) (IAF) HEXOL (RNP 0.50)

7200 222° (6.5) 7200 222° (6.5) 7200 222° (6.5)

CEMLI 8512 8775 10000 10000 9440

SI

DULCA Max 230 KIAS 10500 022° (18.4) 9100 027° (20.3) 9000

FAVTA Max 230 KIAS

MSA RW 27 25 NM 10700

WHITEHALL HIA (RF REQD) (RNP 0.50)

SUZZY (RF REQD) (RNP 0.50)

13000 267° 267°

SAKPE MUSEW

JEXUT 6500 267° 7200

BOSCA Procedure Turn NA

RW27

8 NM 5 NM

GP 3.00° TCH 55

CATEGORY	A	B	C	D
RNP 0.22 DA*	4133-1/2	281 (300-1/2)		
RNP 0.30 DA**	4287-1	435 (500-1)		

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

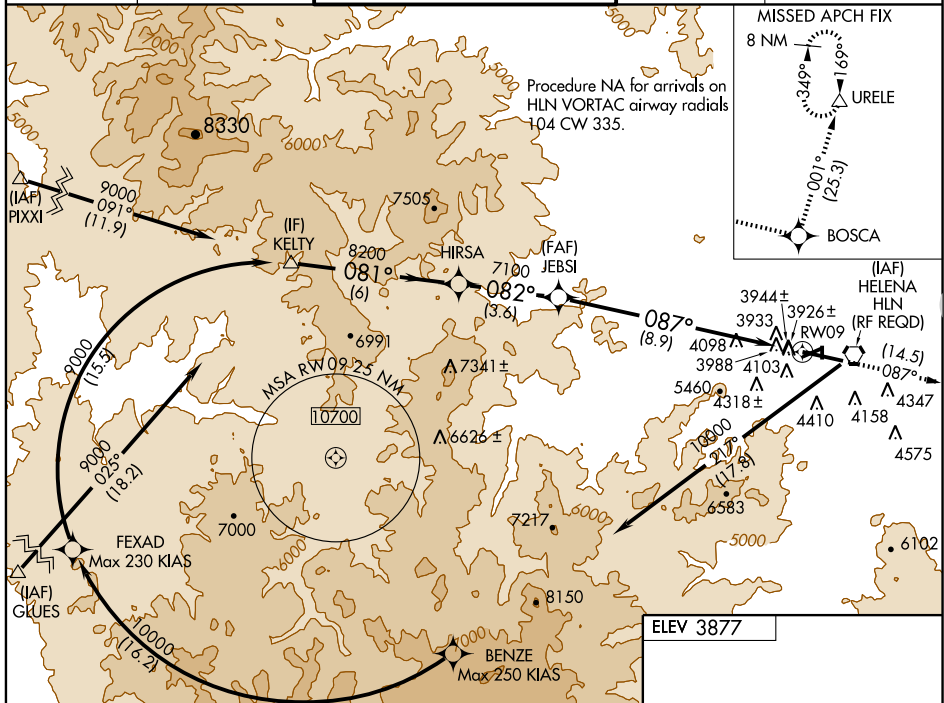
RNAV (RNP) Z RWY 9

HELENA RGNL (HLN)

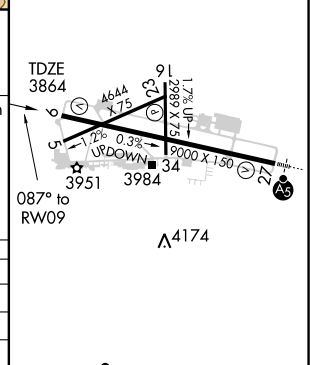
GPS required.
 For uncompensated Baro-VNAV systems, procedure NA below -22°C (-7°F) or above 54°C (130°F).
 When VGSI inoperative, procedure NA at night.
 *Missed approach requires minimum climb of 260' per NM to 4300.

MISSED APPROACH: Climb to 12000 via 087° track to BOSCA and via 001° track to URELE and hold, continue climb-in-hold to 12000.

ATIS	HELENA APP CON *	HELENA TOWER *	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) 0 257.8	121.9	122.95



KELTY				
HIRSA				
JEBESI				
RWY 09				
BOSCA				
URELE				
TDZE 3864				
GP 3.30° TCH 55				
CATEGORY				
RNP 0.11 DA*				
RNP 0.17 DA				
RNP 0.30 DA				



**SPECIAL AIRCRAFT & AIRCREW
 AUTHORIZATION REQUIRED**

REIL Rwy 9 0
 MRL Rwy 5-23 and 16-34 0
 HRL Rwy 9-27 0

APP CRS 267°	Rwy Idg TDZE Apt Elev	9000 3852 3877
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RNAV (RNP) Z RWY 27

HELENA RGNL (HLN)

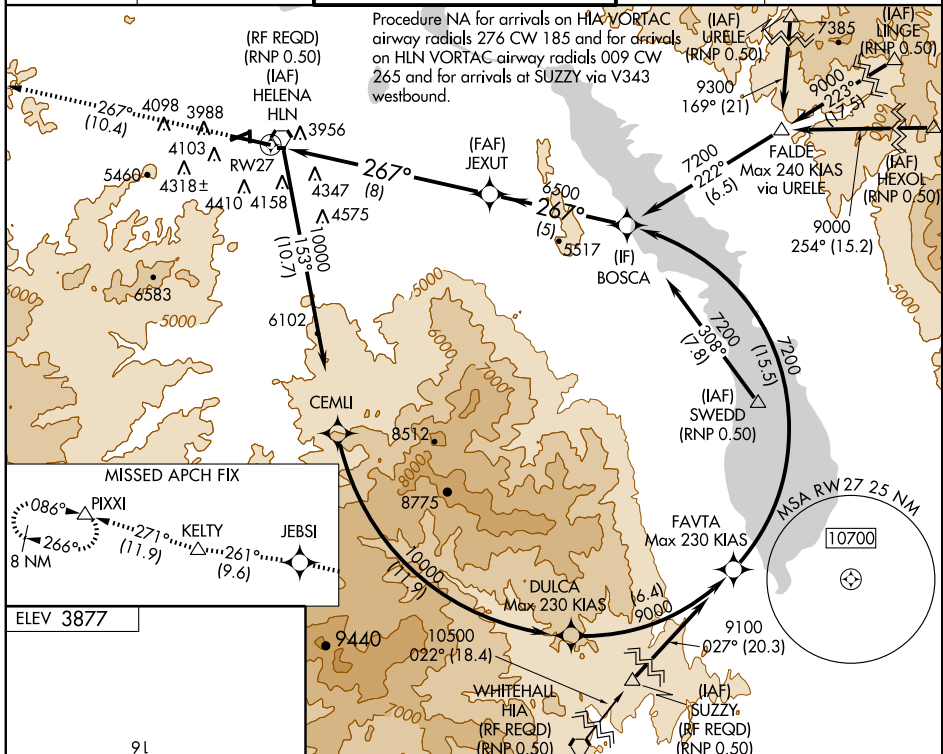
GPS required. For uncompensated Baro-VNAV systems, procedure NA below -22°C (-7°F) or above 41°C (105°F). *Missed approach requires minimum climb of 295 feet per NM to 7900. **Missed approach requires minimum climb of 290 feet per NM to 7300. ***Missed approach requires minimum climb of 405 feet per NM to 6300. For inoperative MALSR, increase RNP 0.18* visibility to 1, RNP 0.22** visibility to 1¼, and RNP 0.30*** visibility to 1½. Inoperative table does not apply to RNP 0.30.

MALSR



MISSED APPROACH: Climb to 13000 via 267° track to JEBSI, and via 261° track to KELTY, and via 271° track to PIXXI and hold, continue climb-in-hold to 13000.

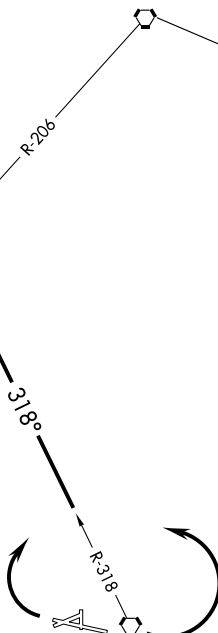
ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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ATIS 120.4
GND CON
121.9
HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4

SIEBE
N46° 53.09'
W112° 09.08'
L-13

GREAT FALLS
115.1 GTF 
Chan 98



NOTE: Rwy 9, 1500-2 or standard
with minimum climb of
360 feet per NM to 6500 feet.

NOTE: Rwy 27, 2400-2 or standard
with minimum climb of
355 feet per NM to 7100 feet.

HELENA
117.7 HLN 
Chan 124
N46° 36.41' - W111° 57.21'
L-13, H-1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn, thence. . . .

TAKE-OFF RUNWAY 27: Climbing right turn, thence. . . .

. . . . Intercept HLN R-318 to SIEBE INT.

STAKK TWO DEPARTURE

ATIS 120.4
GND CON
121.9
HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4

SL-192 (FAA)

GREAT FALLS
115.1 GTF
Chan 98
N47° 27.00' - W111° 24.73'
L-13, H-1

LEWISTOWN
112.0 LWT
Chan 57
N47° 03.18' - W109° 36.37'
L-13, H-1

HELENA
117.7 HLN
Chan 124
N46° 36.41' - W111° 57.21'

(IRWEG)
N46° 40.59' - W111° 36.30'

WAUTS
N46° 36.70' - W111° 27.28'
L-13

STAKK
N46° 33.00' - W111° 36.03'
10200

LIVINGSTON
116.1 LVM
Chan 108

SWEDD
N46° 26.98' - W111° 32.70'

CONNS
N46° 16.11' - W111° 04.93'
L-13

BOZEMAN
112.4 BZN
Chan 71
N45° 47.03' - W111° 09.33'
L-13

NOTE: DME required.

NOTE: Take-off Rwy 9 requires a minimum climb of 390' per NM.

NOTE: Take-off Rwy 27 requires a minimum climb of 300' per NM.

NOTE: This SID requires a minimum climb of 300' per NM.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to intercept HLN R-087 to cross STAKK INT at or above 10,200'. Thence via transition.

TAKE-OFF RUNWAY 27: Climb on runway heading to 4500' then climbing right turn direct HLN VORTAC. Continue climb on HLN R-087 to cross STAKK INT at or above 10,200'. Thence via transition.

BOZEMAN TRANSITION (STAKK2.BZN): From over STAKK INT via 15 DME Arc and V365 to BZN VOR/DME.

CONNS TRANSITION (STAKK2.CONNS): From over STAKK INT via 15 DME Arc and V2 to CONNS INT.

GREAT FALLS TRANSITION (STAKK2.GTF): From over STAKK INT via 15 DME Arc and V21 to GTF VORTAC.

LEWISTOWN TRANSITION (STAKK2.LWT): From over STAKK INT via 15 DME Arc and V113 to LWT VORTAC.

WAUTS TRANSITION (STAKK2.WAUTS): From over STAKK INT via 15 DME Arc and V247 to WAUTS INT.

AL-192 (FAA)

VOR-A
HELENA RGNL (HLN)

T
A Circling NA for Cat D south of Rwy 9-27.

MISSED APPROACH: Climbing right turn to 9000 via HLN VORTAC R-336 to WOKEN INT and hold.

ATIS
120.4

HELENA APP CON ★
119.5 229.4

HELENA TOWER★
118.3 (CTAF) **L** 257.8

GND CON
121,9

UNICOM
122.95

MISSED APCH FIX

WOKEN
GTF 37.7

ALTERNATE MISSED
APPROACH

HELENA
HLN $\frac{117.7}{117.7}$
Chan 124

HELENA
117.7 HLN
Chn 124

ELEV 3877

9000

WOKEN

VORTAC

Remain
within 10 NM

Procedure Turn: Descend to 10000 in HLN VORTAC holding pattern prior to departing outbound for procedure turn.

086.

$$\geq \underline{8200}$$

Δ4174

CATEGORY	A	B	C	D
CIRCLING	6700-1¼ 2823 (2900-1¼)	6700-1½ 2823 (2900-1½)	6700-3 2823 (2900-3)	

REIL Rwy 9 **L**
MIRL Rwy 5-23 and 16-34 **L**
HIRL Rwy 9-27 **L**

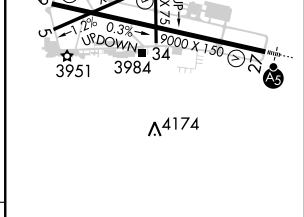
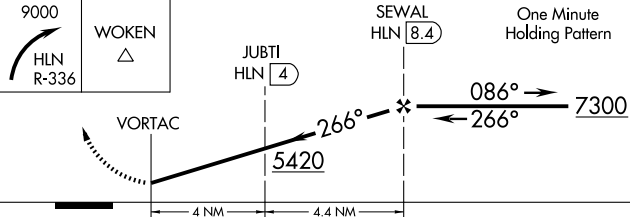
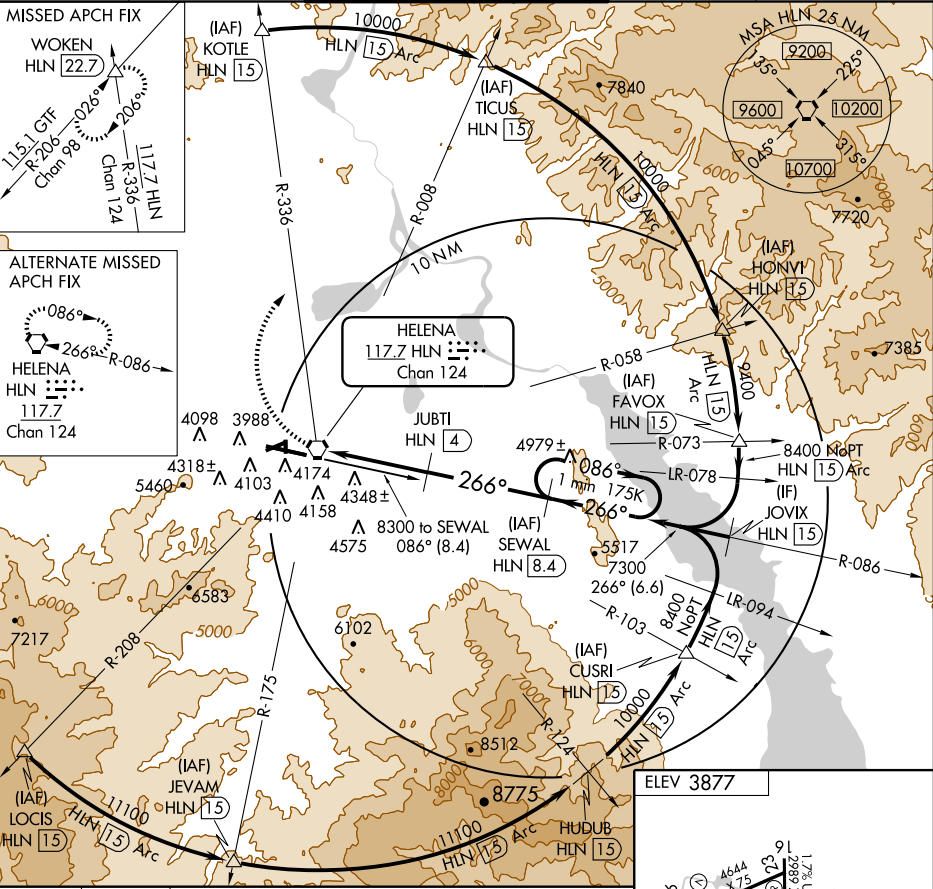
NW-1. 14 JAN 2010 to 11 FEB 2010

VORTAC HLN 117.7 Chan 124	APP CRS 266°	Rwy Idg TDZE Apt Elev N/A N/A 3877
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⚠ Circling NA for Cat D south of Rwy 9-27.
⚠ DME Arc to final approach course required for turboprop aircraft.
Holding at SEWAL authorized for Cat A and B aircraft only.

MISSED APPROACH: Climbing right turn to 9000
via HLN VORTAC R-336 to WOKEN INT/22.7 DME
and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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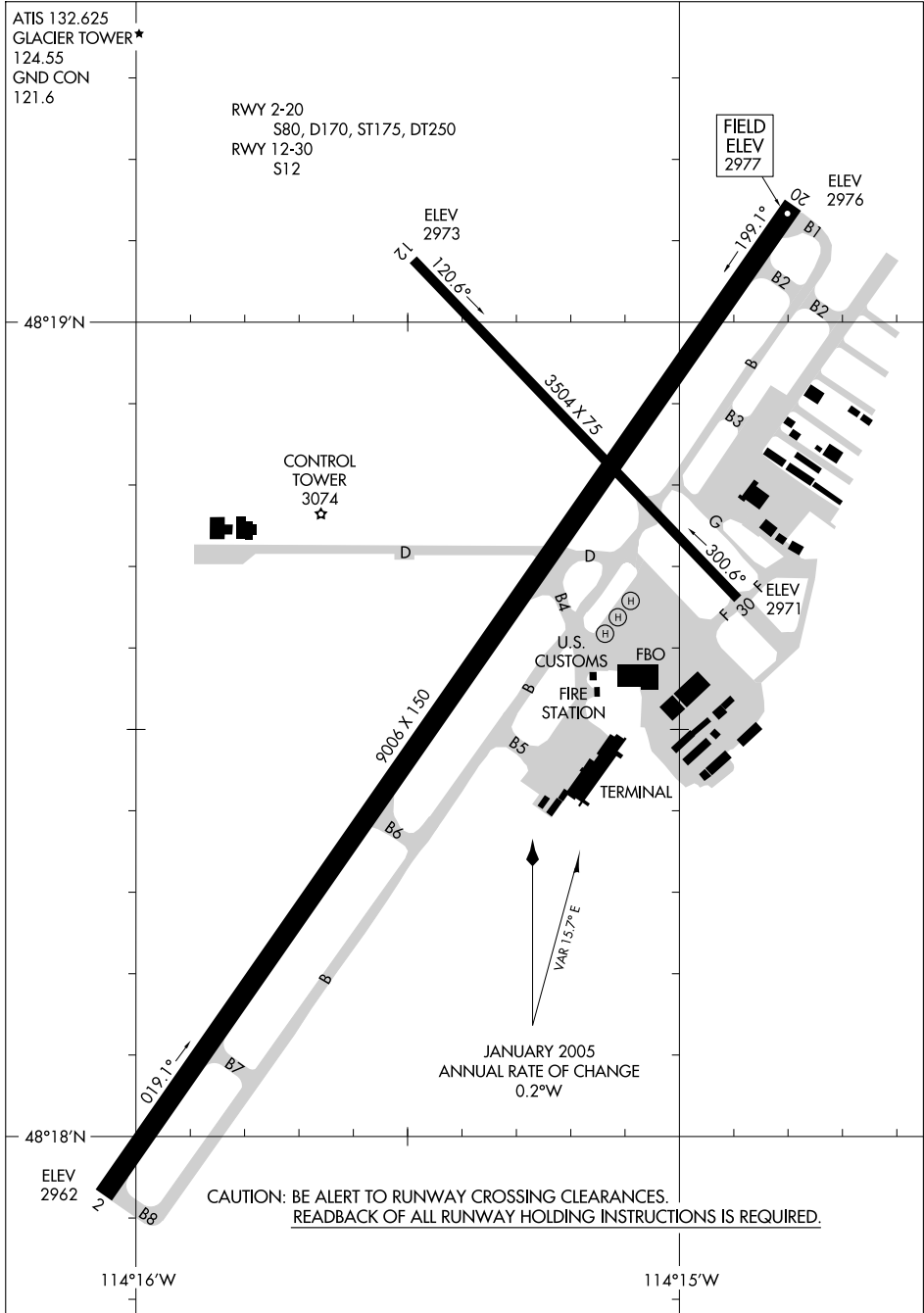


CATEGORY	A	B	C	D
CIRCLING	4760-1¼ 883 (900-1¼)	4760-2¾ 883 (900-2¾)	4760-3 883 (900-3)	4760-3 883 (900-3)

REIL Rwy 9
MIRL Rwy 5-23 and 16-34
HRL Rwy 9-27

AIRPORT DIAGRAM

AL-887 (FAA)

KALISPELL/GLACIER PARK INTL (GPI)
KALISPELL, MONTANA

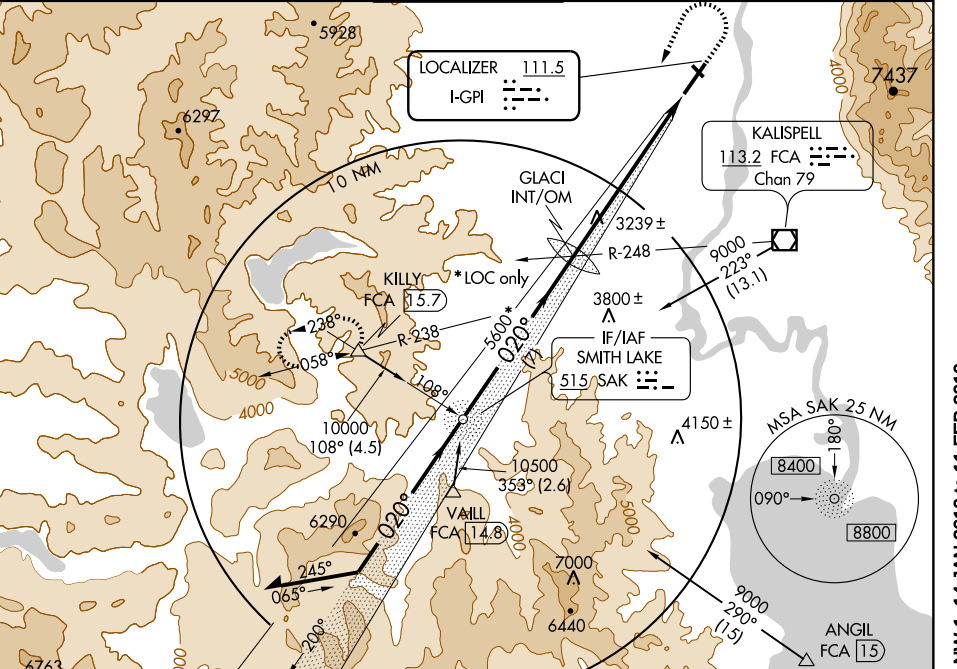
LOC I-GPI	APP CRS	Rwy Idg	9006
111.5	020°	TDZE	2966
		Apt Elev	2977

ADF required.

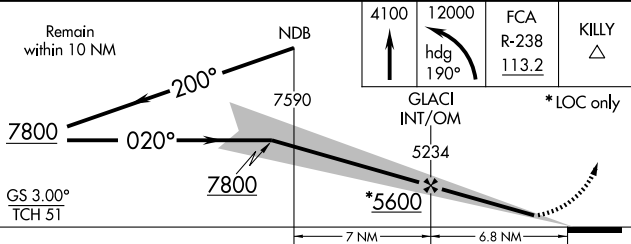
MALS R

MISSED APPROACH: Climb to 4100, then climbing left turn to 12000 via heading 190° and via FCA VOR/DME R-238 to KILLY INT/FCA 15.7 DME and hold, continue climb-in-hold to 12000.

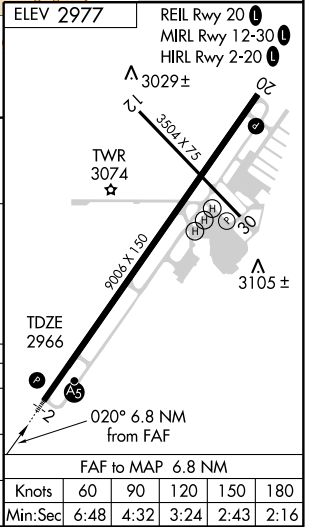
ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER * 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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ADF REQUIRED



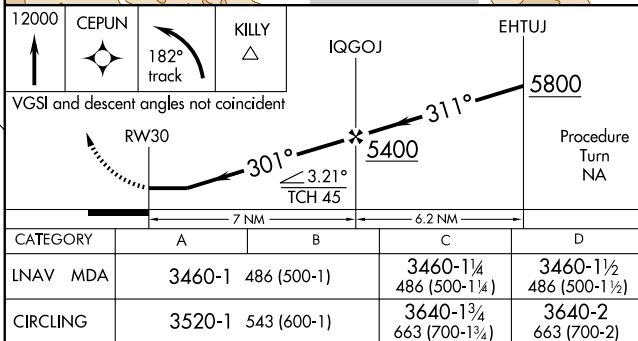
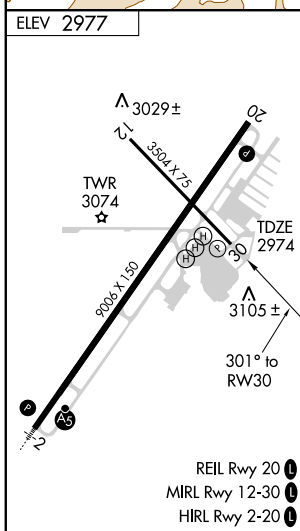
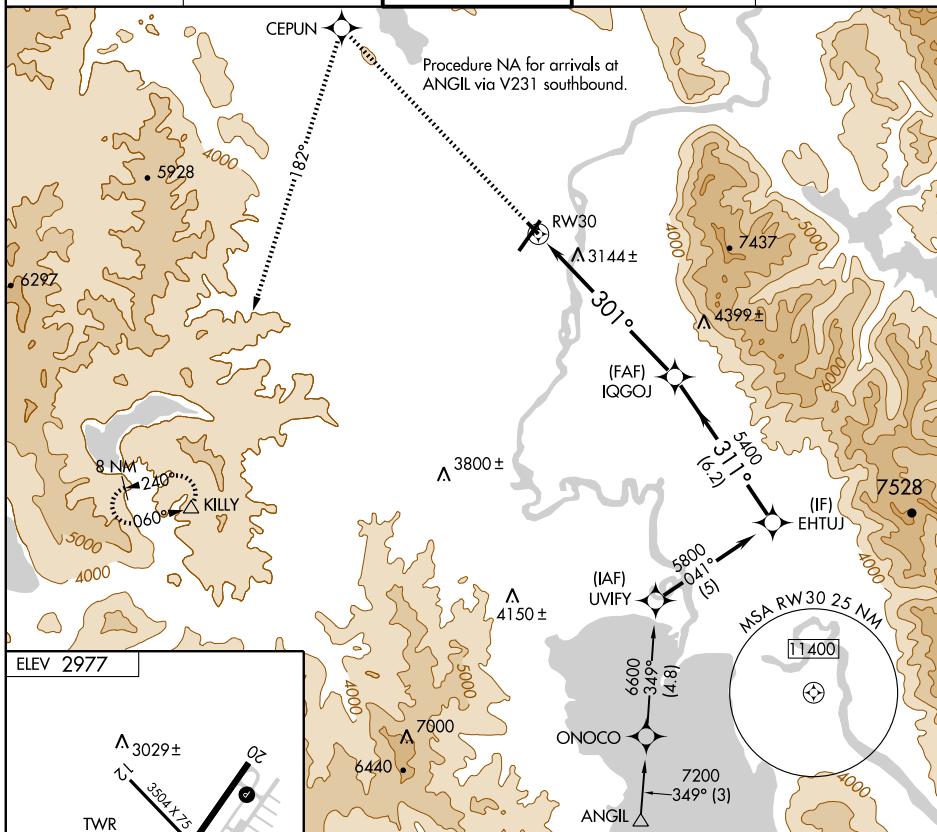
CATEGORY	A	B	C	D
S-ILS 2	3166-1/2 200 (200-1/2)			
S-LOC 2	3540-1/2 574 (600-1/2)	3540-1 574 (600-1)	3540-2 574 (600-1 1/4)	3540-1 574 (600-1 1/4)
CIRCLING	3540-1 563 (600-1)	3540-1 663 (700-1 3/4)	3540-2 663 (700-2)	3540-1 663 (700-2)



RNAV (GPS) RWY 30

KALISPELL/ GLACIER PARK INTL (GPI)

MISSED APPROACH: Climb to 12000 direct CEPUN and left turn via track 182° to KILLY and hold, continue climb-in-hold to 12000.

UNICOM
122.95

WAAS CH 70799 W02A	APP CRS 020°	Rwy Idg TDZE Apt Elev	9006 2966 2977
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For inoperative MALS, increase LPV visibility to 1 1/4 mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP-0.3 NA.

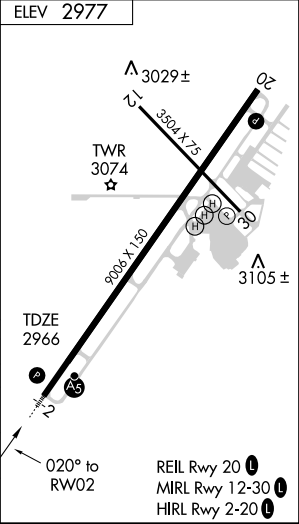
MALS

MISSED APPROACH: Climb to 9000 direct CUTUT and via track 290° to KECEK and via track 209° to BOFVY and hold.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER★ 124.55 (CTAF)	GND CON 121.6	UNICOM 122.95
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Procedure Turn NA		AVDIH	BOGKO	9000	CUTUT	trk 290°	KECEK	trk 209°	BOFVY
7000		020°	5800	5200	5200	4100	*1.8 NM to RWY 02	RWY 02	
GS 3.00°		TCH 51	4.9 NM	2.2 NM	3.3 NM	1.6 NM	1.8 NM		
CATEGORY	A	B	C	D					
LPV DA	3297-3/4				331 (400-3/4)				
LNAV/VNAV DA	3502-1 1/2				536 (600-1 1/2)				
LNAV MDA	3600-1/2	634 (700-1/2)	3600-1 1/4	634 (700-1 1/4)	3600-1 1/2	634 (700-1 1/2)			
CIRCLING	3600-1	623 (700-1)	3640-1 1/4	663 (700-1 1/4)	3640-2	663 (700-2)			



NW-1, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	9006
200°	TDZE	2977
	Apt Elev	2977

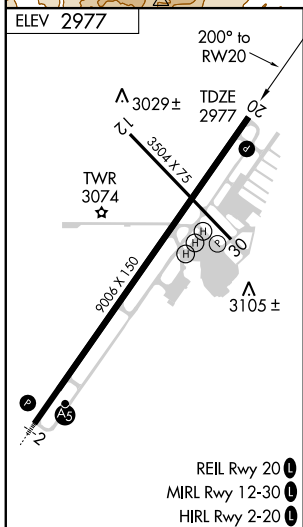
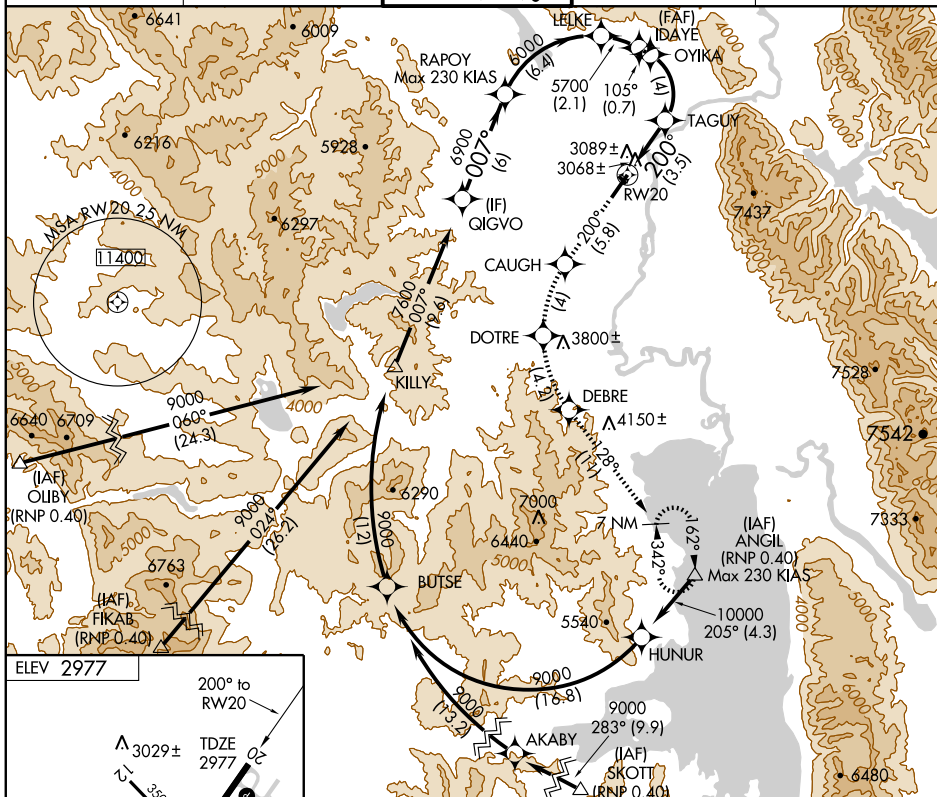
RNAV (RNP) RWY 20

KALISPELL/ GLACIER PARK INTL (GPI)

RF and GPS required. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 43°C (109°F).
***Missed approach requires minimum climb of 235 feet per NM to 6900.**
 Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 10000 via 200° track to CAUGH and via left turn to DOTRE, and via left turn to DEBRE, and via 128° track to ANGL and hold, continue climb-in-hold to 10000.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER* 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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10000 ↑ 200°	CAUGH	DOTRE	LEKE	RAPOY	QIGVO
7600	7600	7600	7600	7600	7600
6900	6900	6900	6900	6900	6900
6000	6000	6000	6000	6000	6000
5700	5700	5700	5700	5700	5700
4147	4147	4147	4147	4147	4147
3.5 NM	4 NM	0.7 NM	2.1 NM	6.4 NM	6 NM
CATEGORY	A	B	C	D	
RNP 0.10 DA*	3344-1 1/4	367 (400-1 1/4)			
RNP 0.30 DA*	3446-1 3/4	469 (500-1 3/4)			
RNP 0.30 DA	3662-2 1/2	685 (700-2 1/2)			

Procedure Turn NA
GP 3.00°
TCH 45

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

APP CRS	Rwy Idg	9006
020°	TDZE	2966
	Apt Elev	2977

RNAV (RNP) Y RWY 2

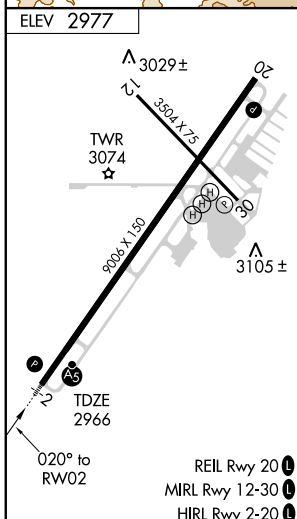
KALISPELL/ GLACIER PARK INTL (GPI)

RF and GPS required.
***Missed approach requires minimum climb of 220 feet per NM to 6100.**
Missed approach requires RNP less than 1.0.
 For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 43°C (109°F). For inoperative MALSR increase RNP 0.10 * visibility to 1¼ and RNP 0.30 visibility to 2.

MALSR

MISSED APPROACH: Climb to 10000 via left turn to JOGAD, and via left turn to ROYOG and via left turn to TONUY, and via 121° track to WILTO and via 129° track to ANGIL and hold.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER * 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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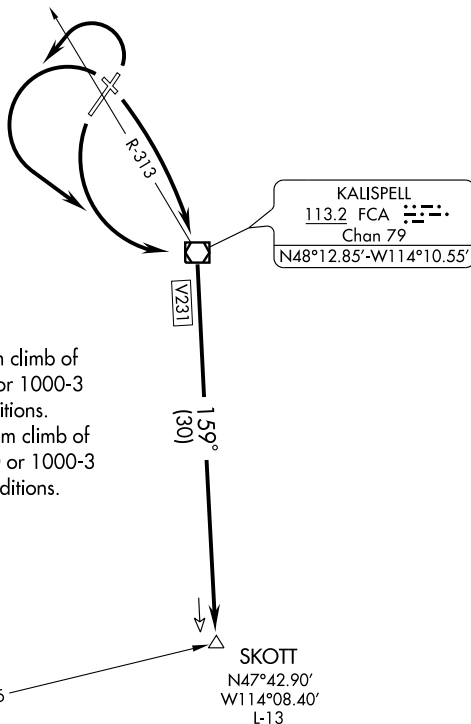
	JUNRU	WULEX	AVDIH	10000	JOGAD	ROYOG
Procedure	Turn NA	015°	020°	BINGQ		
GP 3.00°	7200	6200	5200			
TCH 51						
	3 NM	3.2 NM	7.1 NM	6.7 NM		
CATEGORY	A	B	C	D		
RNP 0.10 DA*	NA	3340-¾	374 (400-¾)			
RNP 0.30 DA	NA	3522-1½	556 (600-1½)			

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

NW-1. 14 JAN 2010 to 11 FEB 2010

SKOTT ONE DEPARTURE (OBSTACLE)

SALT LAKE CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
GLACIER TOWER★
124.55

TAKE-OFF MINIMUMS

Rwys 12, 20: Standard.

Rwy 2: Standard with minimum climb of
444' per NM to 7500 or 1000-3
for climb in visual conditions.

Rwy 30: Standard with minimum climb of
249' per NM to 5900 or 1000-3
for climb in visual conditions.

MULLAN PASS
117.8 MLP
Chan 125

SKOTT
N47°42.90'
W114°08.40'
L-13

TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple trees beginning 1468' from DER, 674' right of centerline, up to 91' AGL/3061' MSL.

Rwy 12: Multiple trees beginning 1426' from DER, 543' left of centerline, up to 129' AGL/3082' MSL.

Railroad 702' from DER, 317' left of centerline, 31' AGL/2997' MSL.

Road 544' from DER, 299' left of centerline, 22' AGL/2988' MSL.

Rwy 20: Multiple trees beginning 2742' from DER, 1140' left of centerline, up to 107' AGL/3169' MSL.

Rwy 30: Multiple trees beginning 1848' from DER, 722' left of centerline, up to 104' AGL/3067' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 2: Climbing left turn direct FCA VOR/DME, thence.... or, climb in visual conditions to cross Glacier Park Intl Airport southeast bound at or above 3800, then via FCA R-313 to FCA VOR/DME, thence....

TAKE-OFF RUNWAY 30: Climbing left turn direct FCA VOR/DME, thence.... or, climb in visual conditions to cross Glacier Park Intl Airport southeast bound at or above 3800, then via FCA R-313 to FCA VOR/DME, thence....

TAKE-OFF RUNWAY 12: Climbing right turn direct FCA VOR/DME, thence....

TAKE-OFF RUNWAY 20: Climbing left turn direct FCA VOR/DME, thence....

....continue climb to 10,000 via FCA R-159 to SKOTT INT.

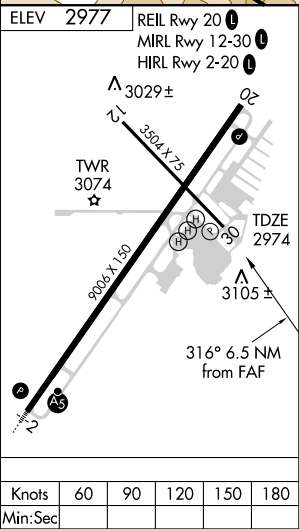
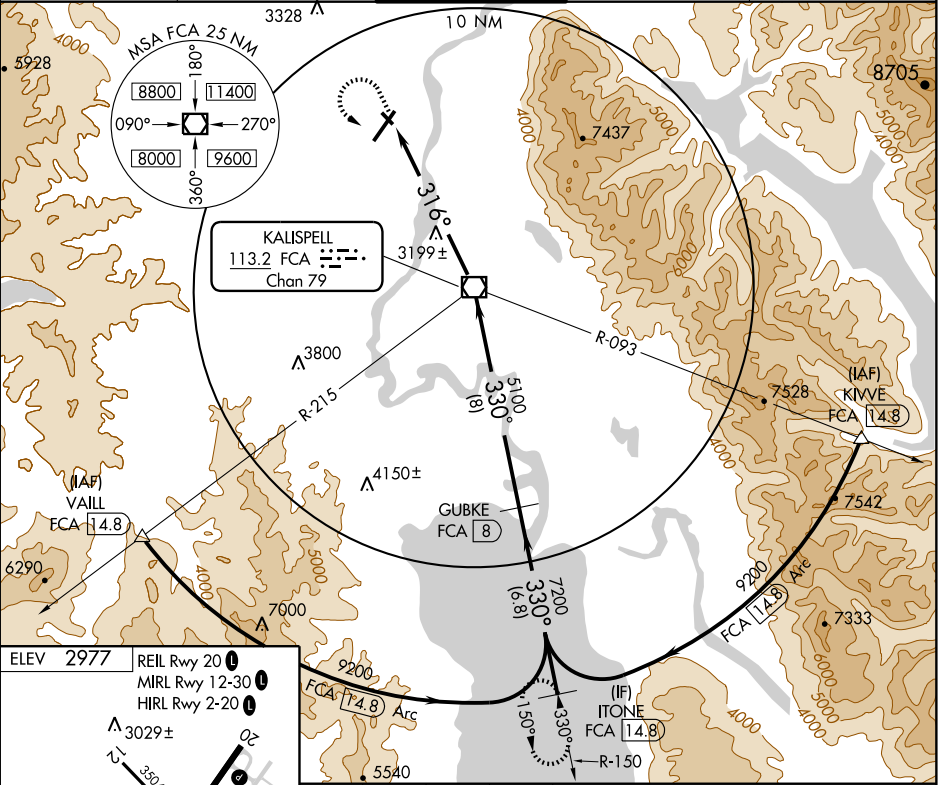
VOR/DME FCA	APP CRS	Rwy Idg	3504
113.2	316°	TDZE	2974
Chan 79		Apt Elev	2977

VOR/DME RWY 30
KALISPELL/ GLACIER PARK INTL (GPI)

▼ Visibility reduction by helicopters not authorized.
When VGSI inoperative, straight-in minimums not authorized at night.

MISSED APPROACH: Climb to 4000 then climbing left turn to 9300 via heading 130° and FCA R-150 to ITONE/14.8 DME and hold, continue climb-in-hold to 9300.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER★ 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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4000 ↑	9300 ↙ 130°	FCA R-150 113.2	ITONE 14.8	
VGSI and descent angles not coincident.				
VOR/DME		GUBKE FCA 8	ITONE FCA 14.8	
FCA 6.5 3.04° TCH 30		316°	330°	
5100		7200	9200	
6.5 NM		8 NM	6.8 NM	
Procedure Turn NA				
CATEGORY	A	B	C	D
S-30	3480-1	506 (600-1)	3480-1½	506 (600-1½)
CIRCLING	3520-1	543 (600-1)	3640-1¾ 663 (700-1¾)	3640-2 663 (700-2)

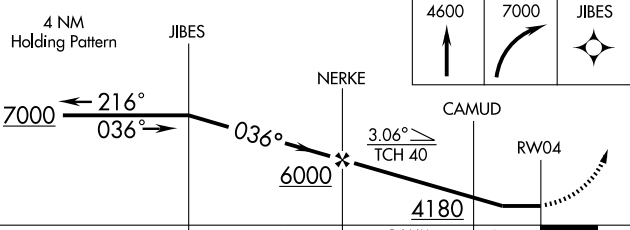
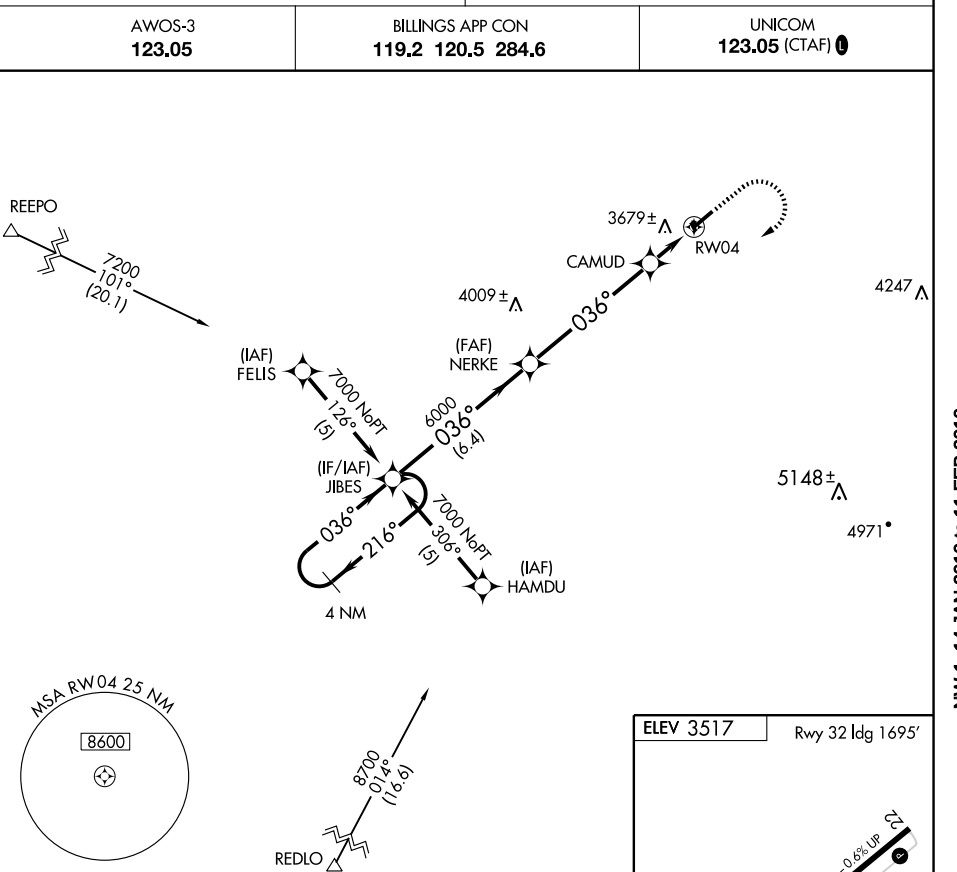
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct JIBES WP and hold.

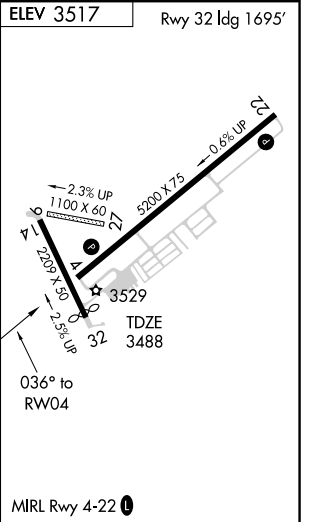
AWOS-3
123.05

BILLINGS APP CON
119.2 120.5 284.6

UNICOM
123.05 (CTAF) 0



CATEGORY	A	B	C	D
LNAV	4120-1	632 (700-1)	4120-1¾ 632 (700-1¾)	4120-2 632 (700-2)
CIRCLING	4220-1	703 (800-1)	4220-2 703 (800-2)	4340-2¾ 823 (900-2¾)



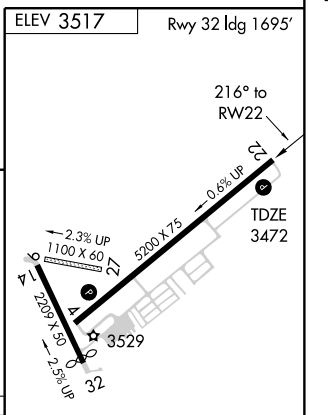
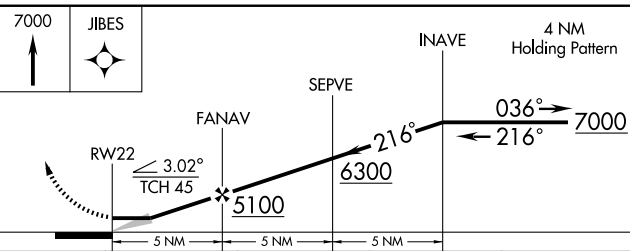
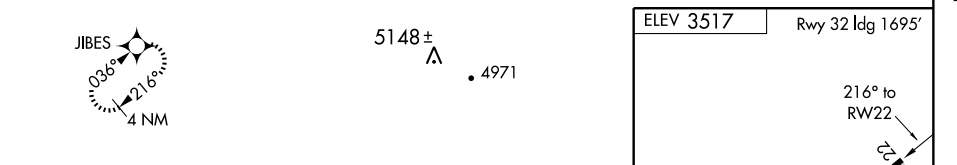
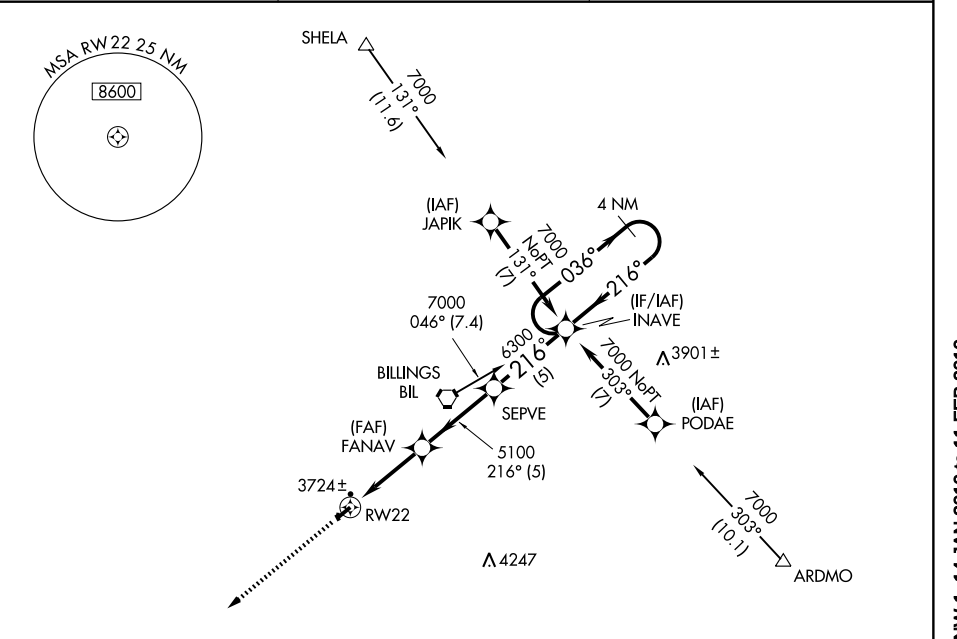
NW-1. 14 JAN 2010 to 11 FEB 2010

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

NA
 Use Billings altimeter setting.

MISSED APPROACH: Climb to 7000 direct JIBES WP and hold.

AWOS-3 123.05	BILLINGS APP CON 119.2 120.5 284.6	UNICOM 123.05 (CTAF)
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CATEGORY	A	B	C	D
RNAV MDA	4100-1 628 (600-1)	4100-1 628 (600-1)	4100-1 628 (600-1)	4100-2 628 (600-2)
CIRCLING	4220-1 703 (800-1)	4220-2 703 (800-2)	4340-2 823 (900-2)	4340-2 823 (900-2)

MRL Rwy 4-22

VORTAC BIL 114.5 Chan 92	APP CRS 208°	Rwy Idg 5200 TDZE 3472 Apt Elev 3517
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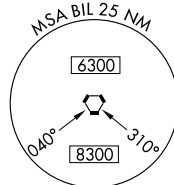
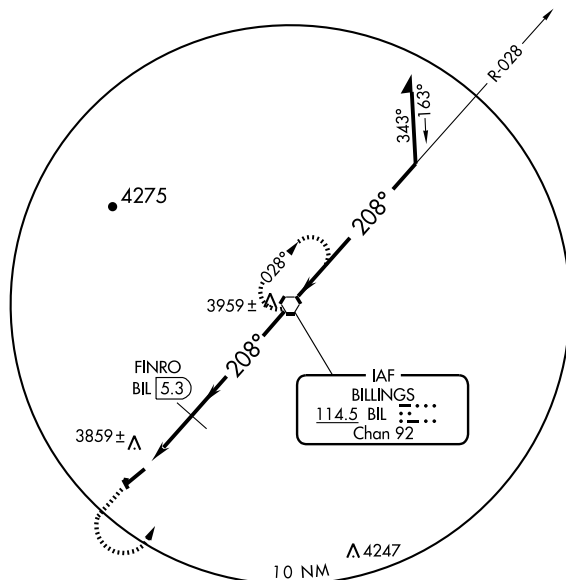
VOR RWY 22
LAUREL MUNI (6S8)



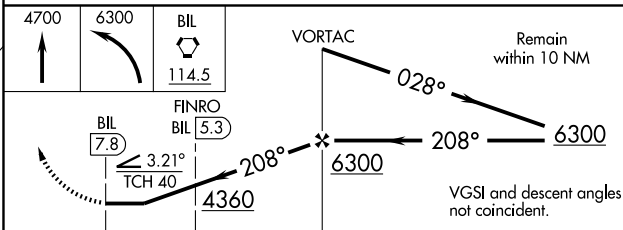
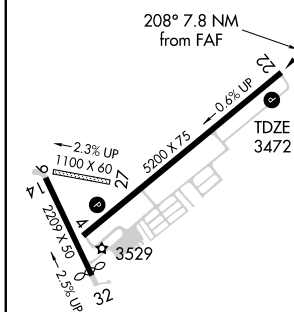
MISSED APPROACH: Climb to 4700 then climbing left turn to 6300 direct BIL VORTAC and hold.

AWOS-3
123.05

BILLINGS APP CON
119.2 120.5 284.6

UNICOM
123.05 (CTAF) **L**

ELEV 3517	Rwy 32 ldg 1695'
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CATEGORY	A	B	C	D
S-22	4360-1 1/4 888 (900-1 1/4)		4360-2 3/4 888 (900-2 3/4)	4360-3 888 (900-3)
CIRCLING	4360-1 1/4 843 (900-1 1/4)		4360-2 3/4 843 (900-2 3/4)	4360-3 843 (900-3)

FINRO FIX MINIMUMS

MIRL Rwy 4-22							FAF to MAP 7.8 NM										S-22		4160-1 688 (700-1)		4160-2 688 (700-2)		4160-2 1/4 688 (700-2 1/4)	
Knots							60	90	120	150	180	CIRCLING		4220-1 703 (800-1)		4220-2 703 (800-2)		4340-2 3/4 823 (900-2 3/4)						
Min:Sec							7:48	5:12	3:54	3:07	2:36													

WAAS CH 86700 W07A	APP CRS 075°	Rwy Idg 6100 TDZE 4129 Apt Elev 4170
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RNAV (GPS) RWY 7

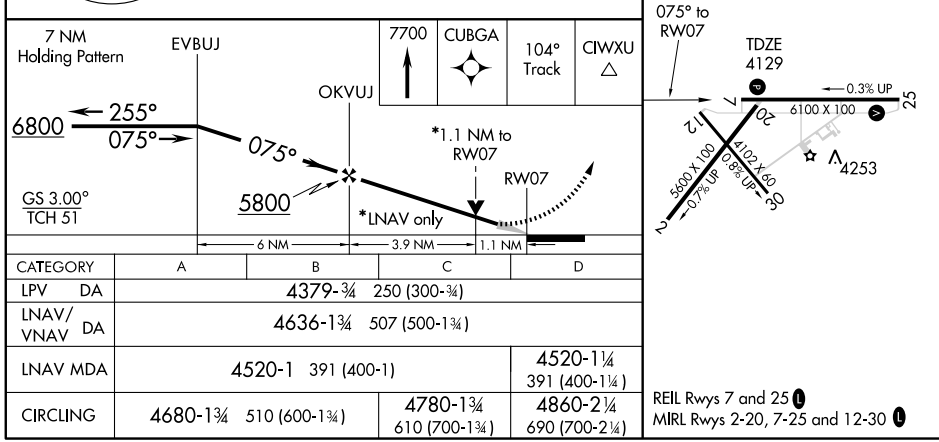
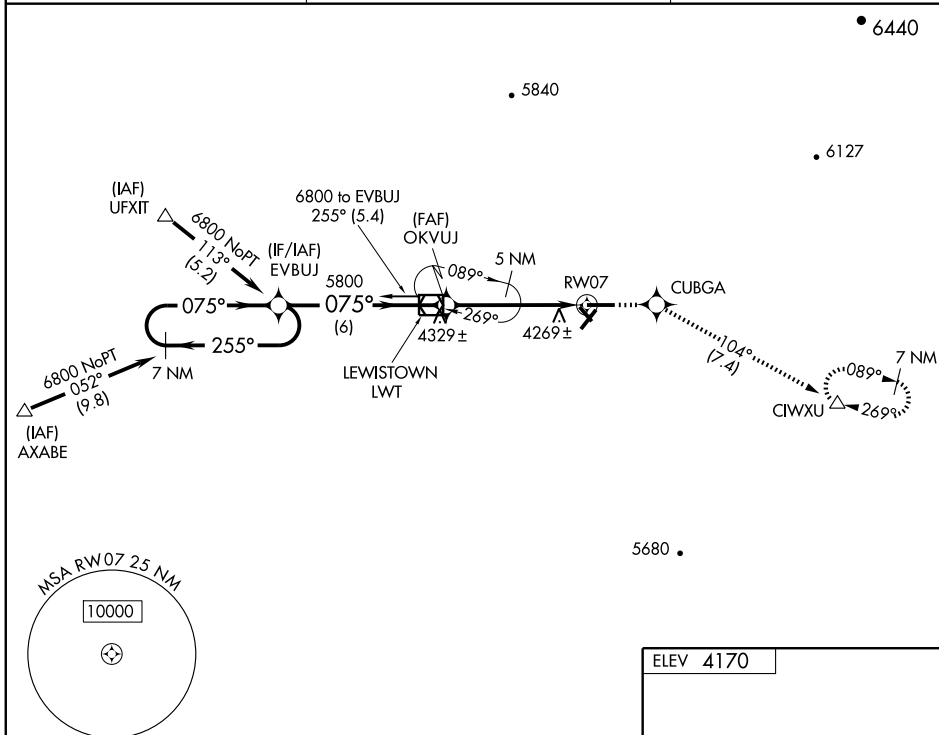
LEWISTOWN MUNI (LWT)

LEWISTOWN MUNI (LWT)

T DME/DME RNP -0.3 NA.
A If local altimeter setting not received, procedure NA.
Baro-VNAV NA below -23°C (-9°F)

MISSED APPROACH: Climb to 7700 direct CUBGA and via 104° track to CIWXU and hold, continue climb-in-hold to 7700.

ASOS 118.375	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) 0
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VOR/DME LWT 112.0 Chan 57	APP CRS 075°	Rwy Idg 6100 TDZE 4126 Apt Elev 4167
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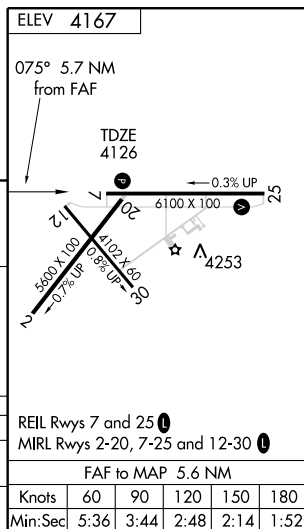
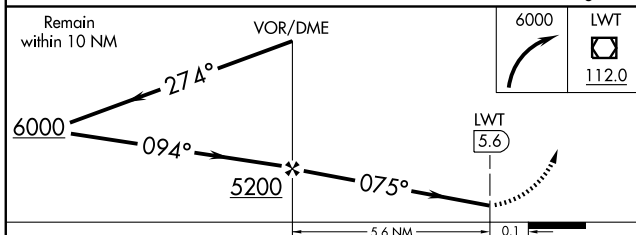
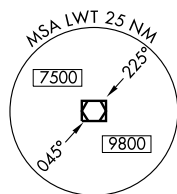
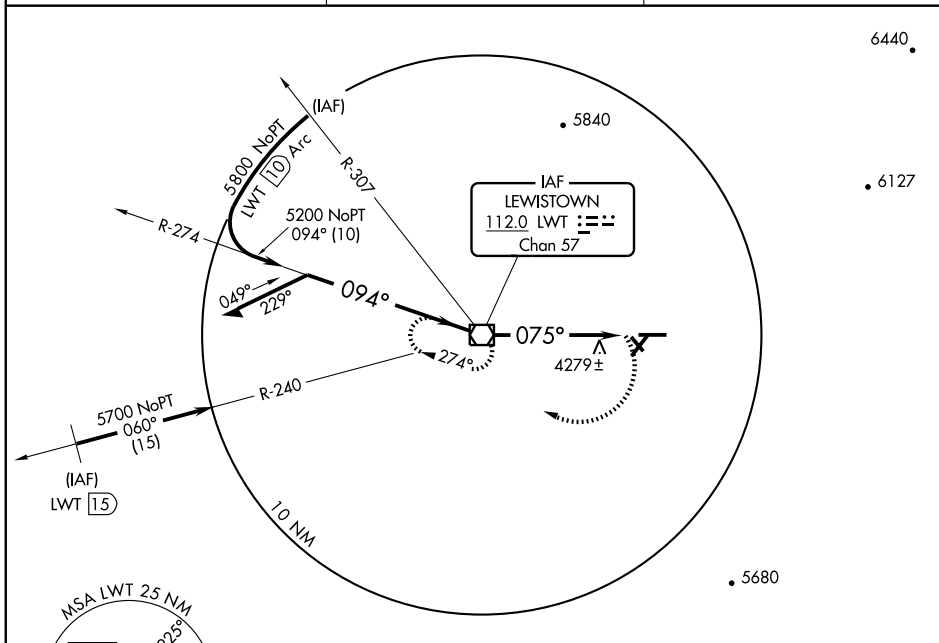
VOR RWY 7

LEWISTOWN MUNI (LWT)

⚠ If local altimeter setting not received, procedure not authorized.

MISSED APPROACH: Climbing right turn to 6000 direct LWT VOR/DME and hold.

ASOS 118.375	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF)
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CATEGORY	A	B	C	D
S-7	4600-1 474 (500-1)	4600-1 474 (500-1 1/4)	4600-1 474 (500-1 1/2)	4600-1 474 (500-1 3/4)
CIRCLING	4660-1 493 (500-1)	4660-1 493 (500-1 1/2)	4660-1 493 (500-1 3/4)	4660-1 493 (500-2 1/4)

REIL Rwy 7 and 25					
MIRL Rwy 2-20, 7-25 and 12-30					
FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

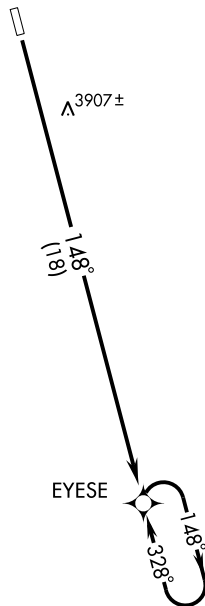
EYESE ONE DEPARTURE (RNAV) (OBSTACLE)

SEATTLE CENTER

123.95 282.3

AWOS-A

118.575



NOTE: 1. GPS Required.
2. RNAV 1

TAKE-OFF MINIMUMS: 1400-2 or standard with a minimum
climb of 380' per NM to 9600'.
3907' terrain 23,697' from runway threshold,
2491' left of centerline.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15: Climb via 148° course to 9600' to EYESE WP, then
continue climb to 12,000' within the EYESE holding pattern.

APP CRS 148°	Rwy Idg TDZE Apt Elev	N/A N/A 2601
------------------------	-----------------------------	---

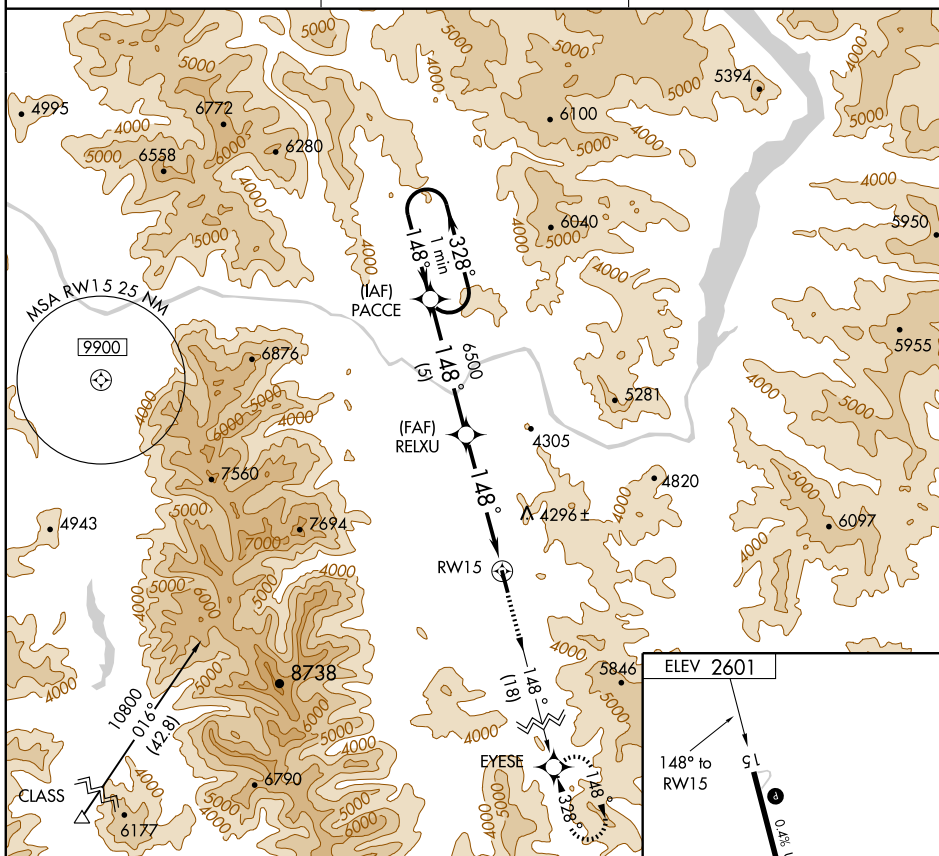
GPS-A
LIBBY (S59)

	Obtain local altimeter setting on CTAF; when not received procedure not authorized.
 NA	Circling not authorized east of Rwy 15-33 at night.

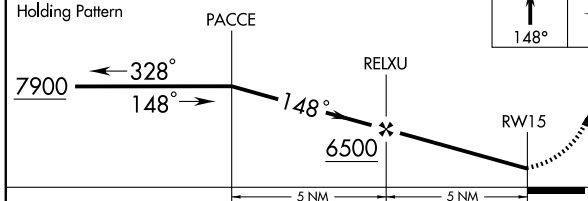
MISSED APPROACH: Climb to 9600 via 148° course to EYSE WP and hold.

AWOS-A
118.575

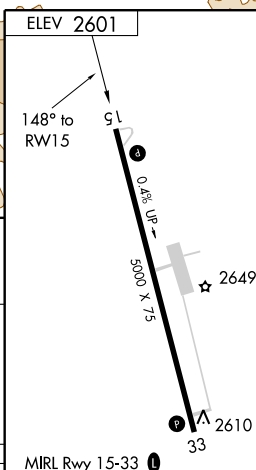
SEATTLE CENTER
123.95 282.3

UNICOM
122.8 (CTAF) 

One Minute Holding Pattern



CATEGORY	A	B	C
CIRCLING	5100-1¼ 2499 (2500-1¼)	5100-1½ 2499 (2500-1½)	NA

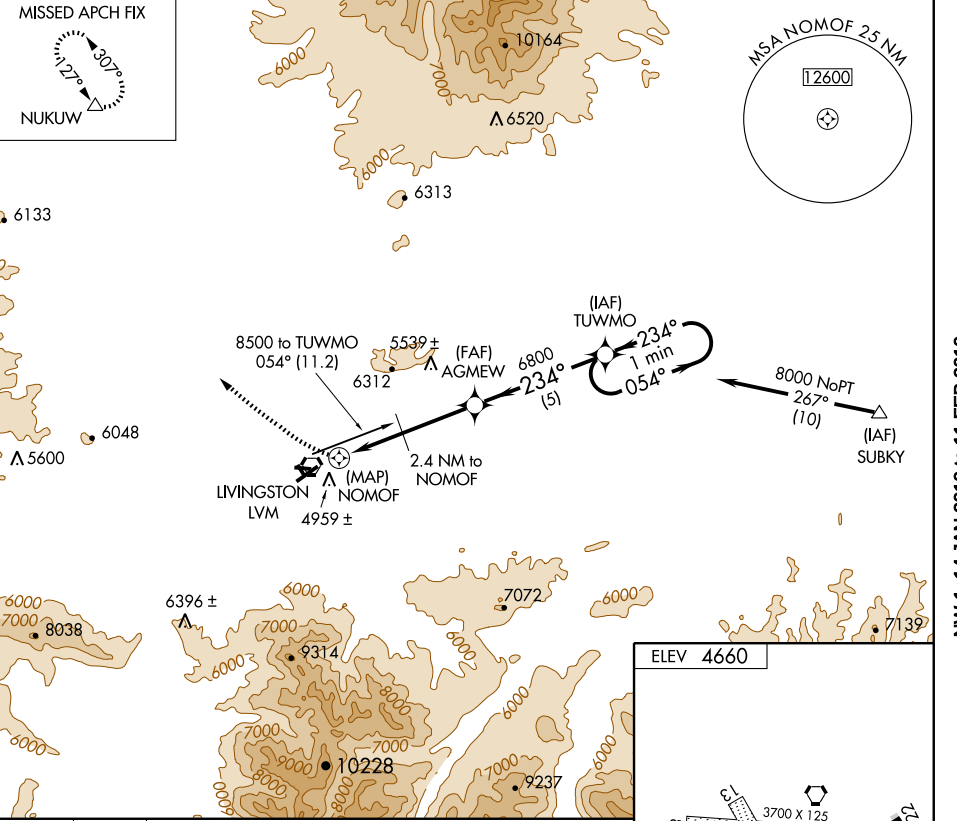


▼

▲ NA

MISSED APPROACH: Climbing right turn to 10000 via 305° course to NUKUW WP and hold.

ASOS 135.275	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) 0
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10000

NUKUW

▲

305°

AGMEW

TUWMO

One Minute Holding Pattern

NOMOF

2.4 NM to NOMOF

5800

6800

234°

054°

8000

0.8

2.4

2.8 NM

5 NM

CATEGORY	A	B	C	D
S-22	5080-1	431 (500-1)	5080-1½ 431 (500-1½)	5080-1½ 431 (500-1½)
CIRCLING	5360-1 700 (700-1)	5380-1 720 (800-1)	5380-2 720 (800-2)	5580-3 920 (1000-3)

ELEV 4660

TDZE 4649

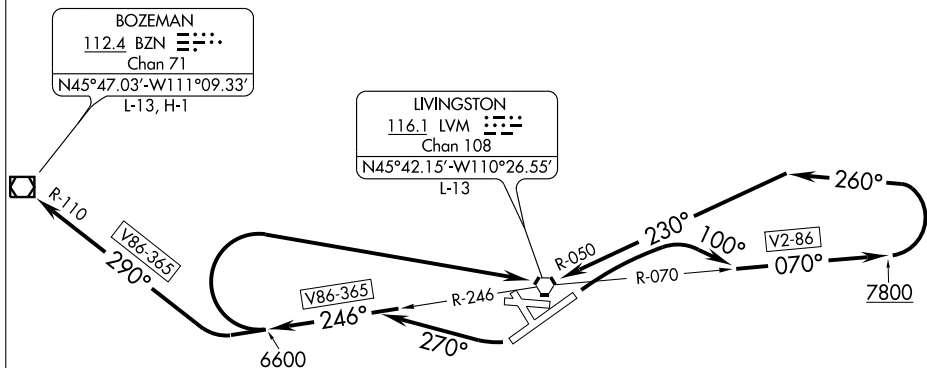
REIL Rwy 22

MIRL Rwy 4-22 0

NW-1. 14 JAN 2010 to 11 FEB 2010

LIVINGSTON ONE DEPARTURE (OBSTACLE)

GREAT FALLS RADIO
122.2
ASOS 135.275



TAKE-OFF MINIMUMS

Rwys 8, 13, 26, 31: NA-Environmental.

Rwy 4: Standard.

Rwy 22: Standard with minimum climb of 300' per NM to 6800
or 2700-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTE

Rwy 22: Multiple trees beginning 400' from DER, 256' right of centerline, up to 100' AGL/4719' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 4: Climbing right turn heading 100° and LVM VORTAC R-070 outbound; aircraft departing eastbound, climb via LVM R-070/V2-86 enroute. All others continue climb on LVM R-070 to 7800, then climbing left turn via heading 260° and LVM R-050 to cross LVM VORTAC at or above 9000, then climb enroute.

TAKE-OFF RUNWAY 22: Climbing right turn heading 270° and LVM VORTAC R-246 outbound; aircraft departing eastbound, continue climb via LVM R-246 outbound to 6600, then climbing right turn direct LVM VORTAC, then climb on LVM R-070/V2-86 enroute. All other aircraft continue climb via LVM VORTAC R-246 and BZN VOR/DME R-110 to BZN. For climb in visual conditions, cross LVM VORTAC at or above 9000 before proceeding via filed airway route.

▼

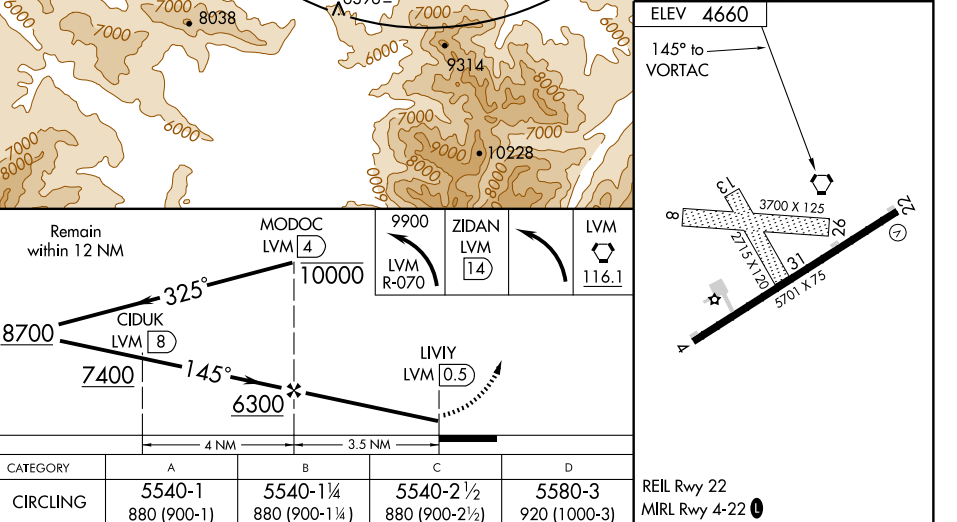
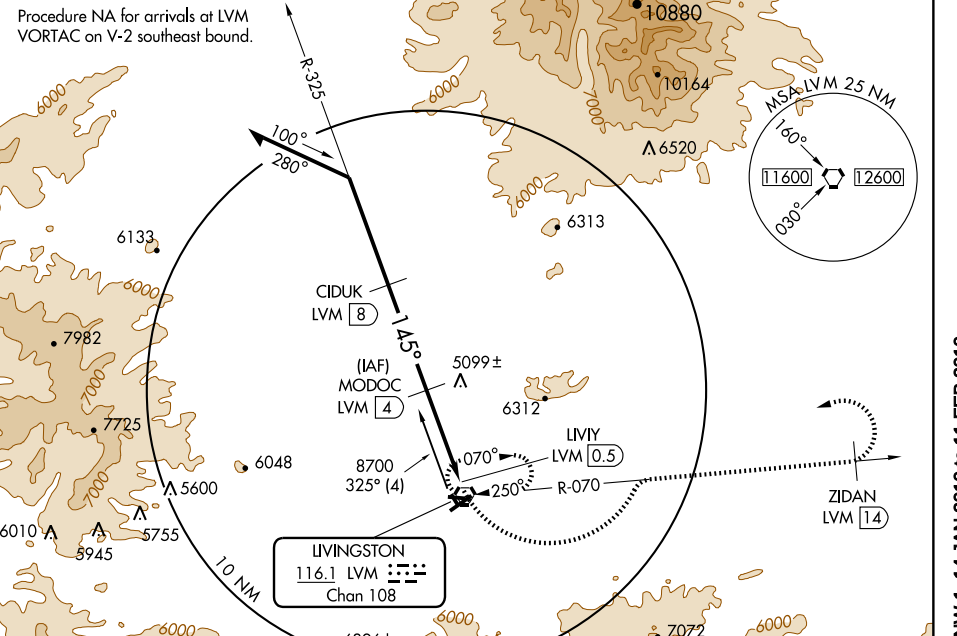
▲

MISSED APPROACH: Climbing left turn to 9900 via LVM VORTAC
R-070 to ZIDAN/14 DME and left turn direct LVM VORTAC and hold.

ASOS
135.275

GREAT FALLS RADIO
122.2

UNICOM
123.0 (CTAF) 0



NW-1, 14 JAN 2010 to 11 FEB 2010

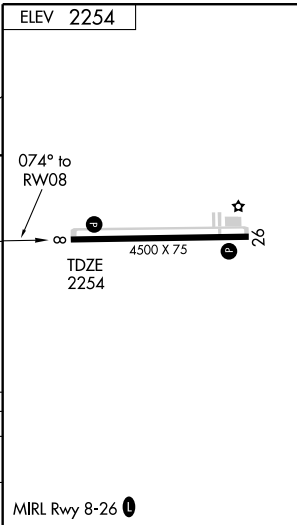
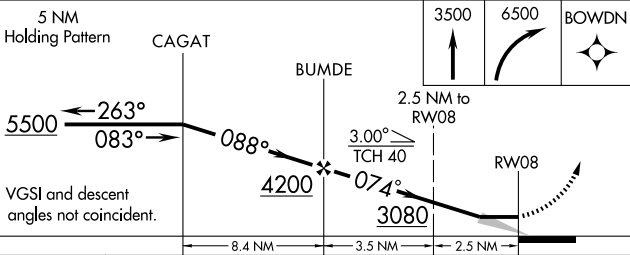
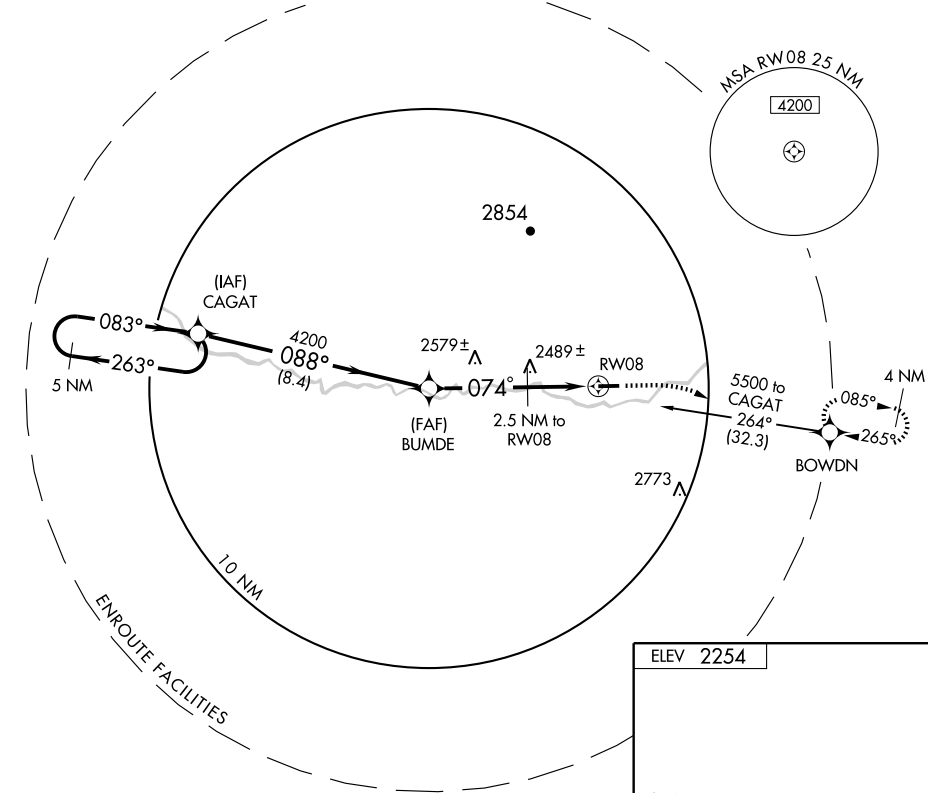
APP CRS	Rwy Idg	4500
074°	TDZE	2254
	Apt Elev	2254

RNAV (GPS) RWY 8
MALTA (M75)

▲ NA Use Glasgow altimeter setting; when not received procedure not authorized.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3500 then climbing right turn to 6500 direct BOWDN WP and hold.

AWOS-3 122.8	SALT LAKE CITY CENTER 126.85 305.2	UNICOM 122.8(CTAF) 0
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CATEGORY	A	B	C	D
LNVA MDA	2980-1	726 (800-1)	NA	NA
CIRCLING	3060-1 806 (900-1)	3100-1¼ 846 (900-1¼)	NA	NA

APP CRS

254°

Rwy Idg

4500

TDZE

2254

Apt Elev

2254

⚠ NA

Use Glasgow altimeter setting; when not received procedure not authorized.

MISSED APPROACH: Climb to 3500 then climbing left turn to 5500 direct AKEKE WP and hold.

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

AWOS-3

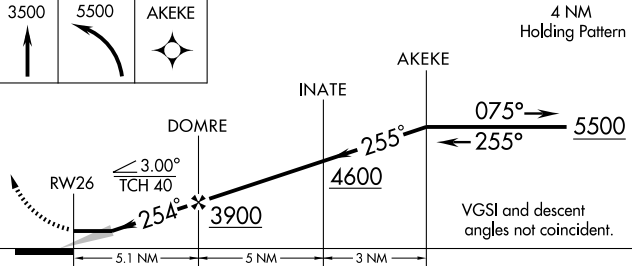
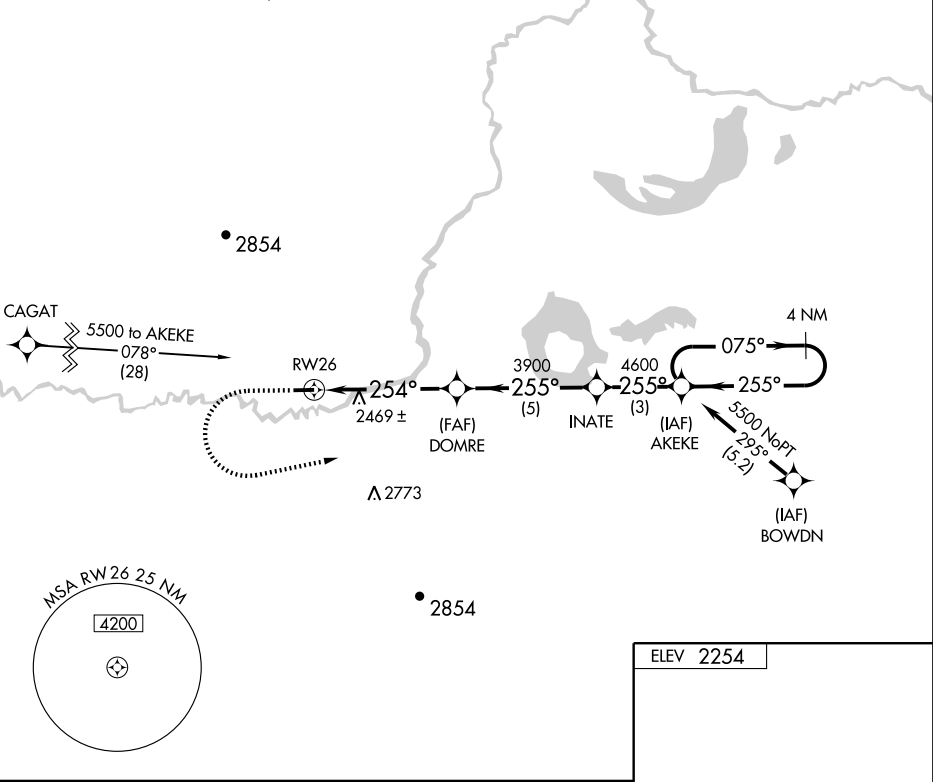
122.8

SALT LAKE CITY CENTER

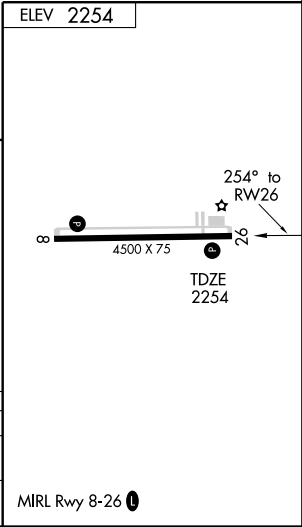
126.85 305.2

UNICOM

122.8 (CTAF) 0



CATEGORY	A	B	C	D
LNAV MDA	2960-1	706 (800-1)	NA	NA
CIRCLING	3060-1 806 (900-1)	3100-1¼ 846 (900-1¼)	NA	NA



NDB RWY 4

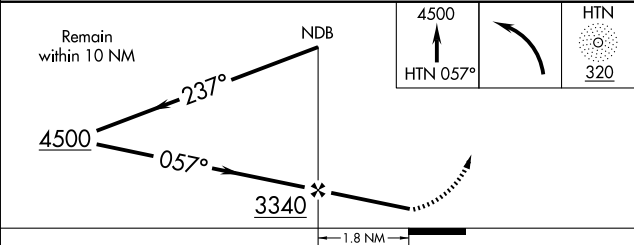
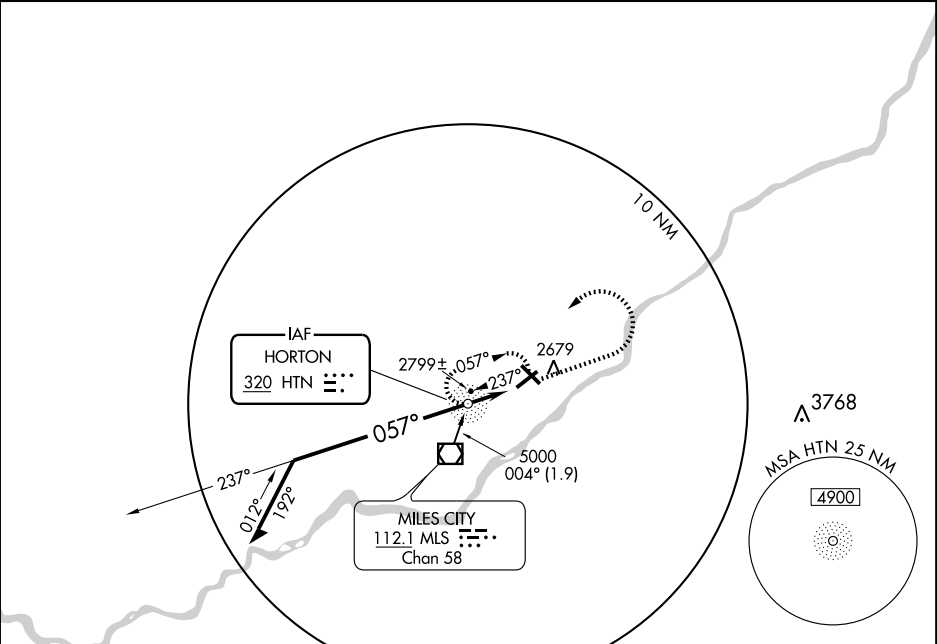
MILES CITY/FRANK WILEY FIELD (MLS)

NDB HTN	APP CRS	Rwy Idg	5680
320	057°	TDZE	2629
		Apt Elev	2630

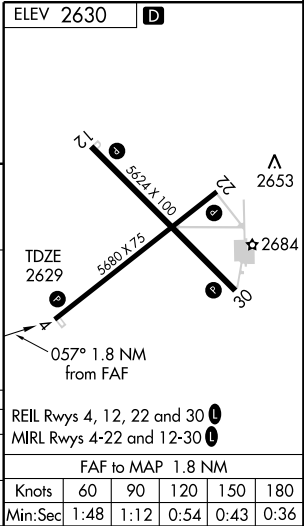
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4500 via 057° bearing from HTN NDB then left turn direct HTN NDB and hold.

ASOS 135.575	GREAT FALLS RADIO 122.2 255.4	UNICOM 123.0 (CTAF) 1
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CATEGORY	A	B	C	D
S-4	3060-1 431 (500-1)	3060-1¼ 431 (500-1¼)	3060-1½ 431 (500-1½)	3060-1½ 431 (500-1½)
CIRCLING	3060-1 430 (500-1)	3080-1 450 (500-1)	3100-1½ 470 (500-1½)	3180-2 550 (600-2)



WAAS CH 42600 W04A	APP CRS 040°	Rwy ldg TDZE 5680 2629 Apt Elev 2630
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RNAV (GPS) RWY 4

MILES CITY/ FRANK WILEY FIELD (MLS)

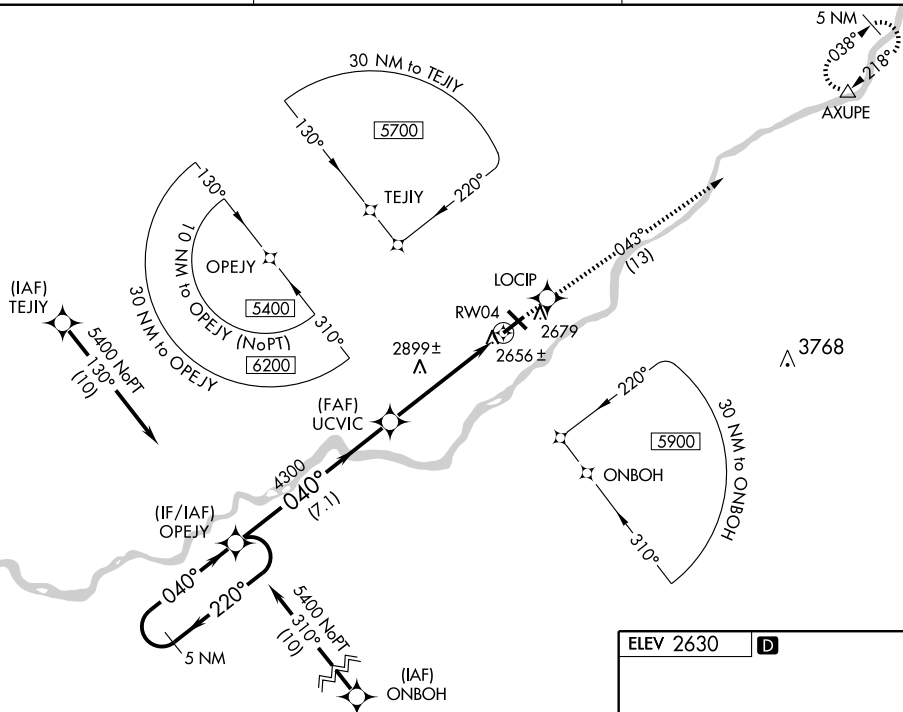
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 32°C (111°F).
Visibility reduction by helicopters NA.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 6000 direct LOCIP and via 043° track to AXUPE and hold.

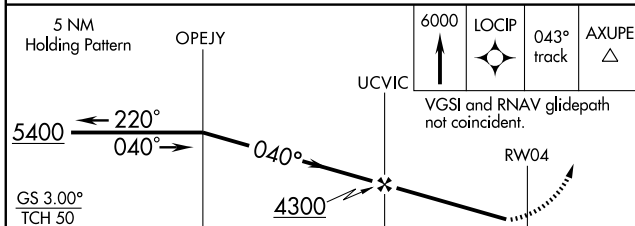
ASOS
135.575

GREAT FALLS RADIO
122.2 255.4

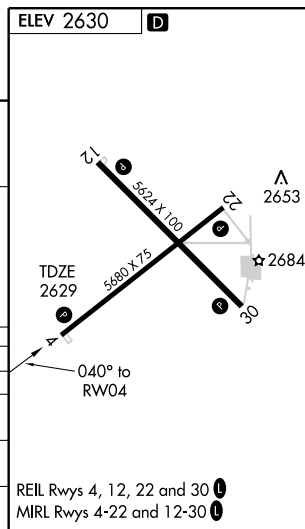
UNICOM
123.0 (CTAF) 0



NW-1, 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D
LPV DA	2879-1 250 (300-1)			
LNAV/VNAV DA	2926-1 297 (300-1)			
LNAV MDA	3160-1	531 (600-1)	3160-1½ 531 (600-1½)	3160-1¾ 531 (600-1¾)
CIRCLING	3160-1	530 (600-1)	3160-1½ 530 (600-1½)	3180-2 550 (600-2)



VORTAC MLS <u>112.1</u> Chan 58	APP CRS 212°	Rwy Idg 5680 TDZE 2628 Apt Elev 2630
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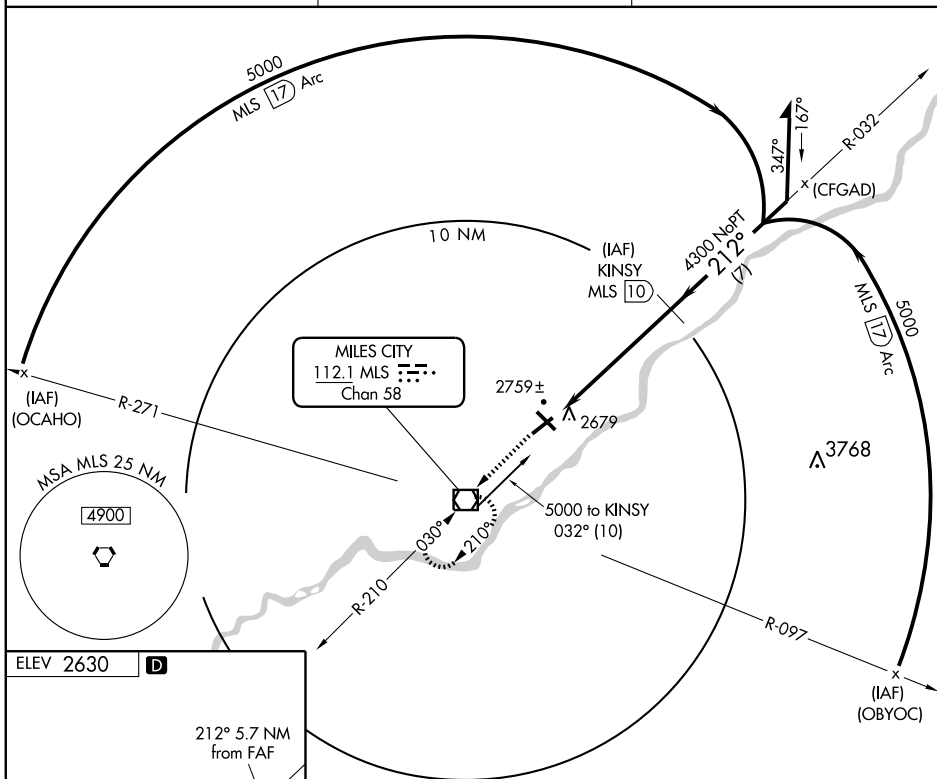
VOR/DME or GPS RWY 22

MILES CITY/FRANK WILEY FIELD (MLS)

MISSED APPROACH: Climb direct to MLS VORTAC. Continue climb to 4700 in MLS VORTAC holding pattern.

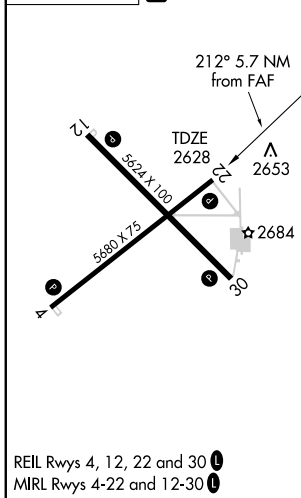
ASOS
135.575

GREAT FALLS RADIO
122.2 255.4

UNICOM
123.0 (CTAF) **L**

NW-1: 14 JAN 2010 to 11 FEB 2010

ELEV 2630	D
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4700	MLS
↑	
	<u>112.1</u>

KINSY
MLS 10

Remain
within 10 NM

M
4.

* 4300

CATEGORY	A	B	C	D
S-22	3020-1 392 (400-1)			3020-1¼ 392 (400-1¼)
CIRCLING	3060-1 430 (500-1)	3080-1 450 (500-1)	3100-1½ 470 (500-1½)	3180-2 550 (600-2)

REIL Rwys 4, 12, 22 and 30 **L**

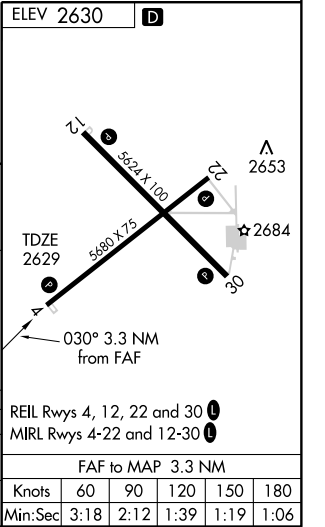
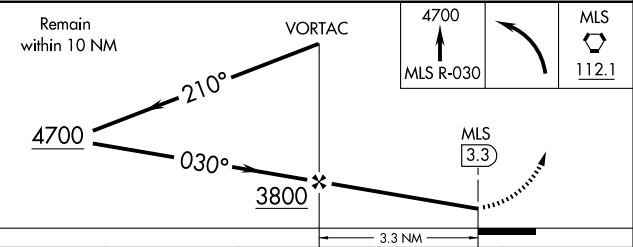
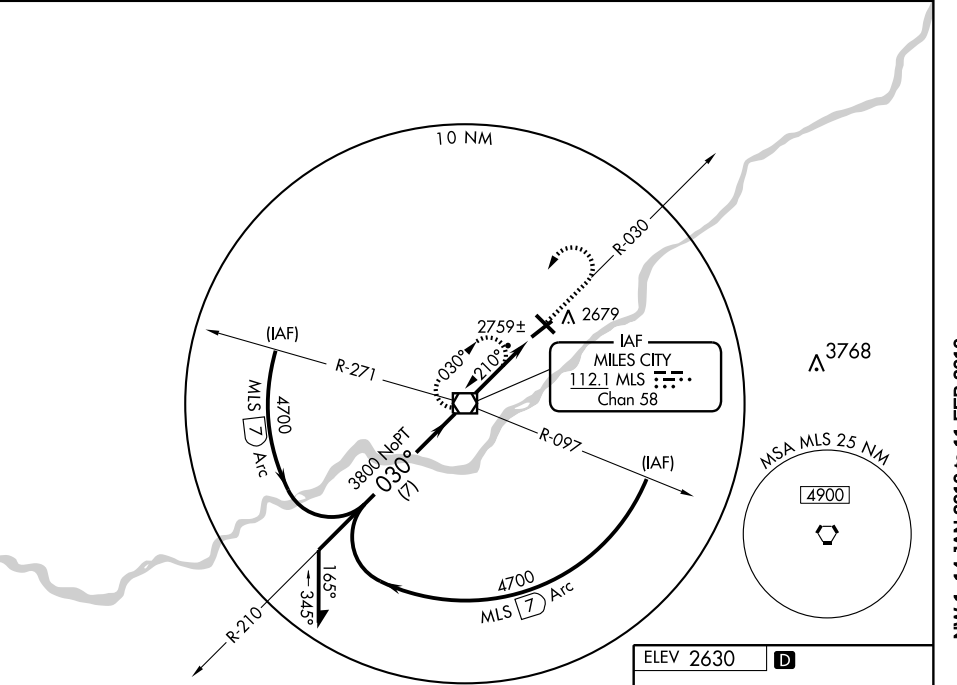
MIRL Rwy 4-22 and 12-30 (L)

VORTAC MLS	APP CRS	Rwy Idg	5680
112.1	030°	TDZE	2629
Chan 58		Apt Elev	2630

Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4700 via MLS R-030 then left turn direct MLS VORTAC and hold.

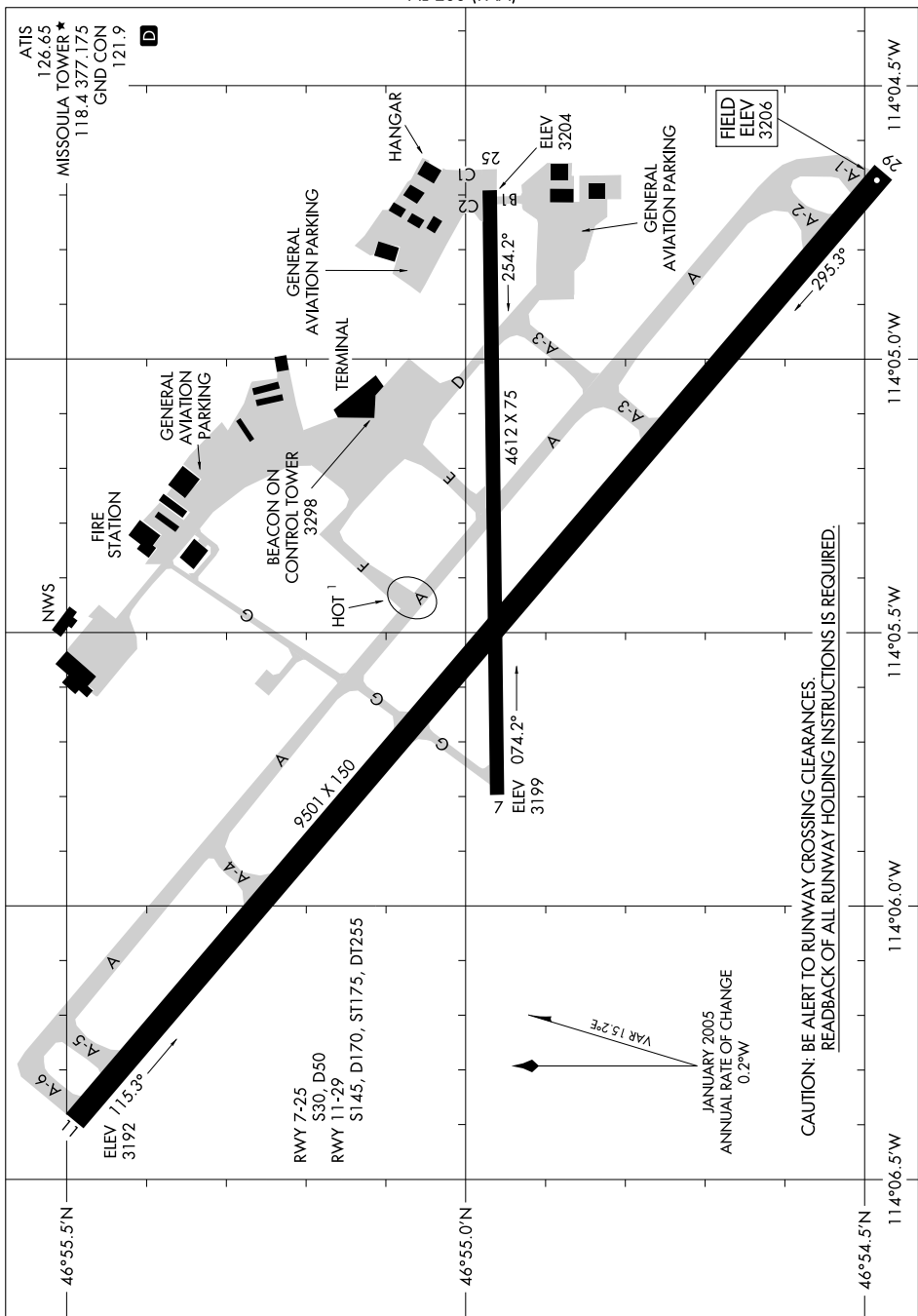
ASOS 135.575	GREAT FALLS RADIO 122.2 255.4	UNICOM 123.0 (CTAF) 0
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AIRPORT DIAGRAM

AL-266 (FAA)

MISSOULA INTL (MSO)
MISSOULA, MONTANA

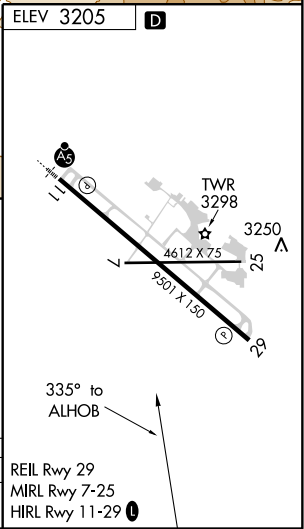
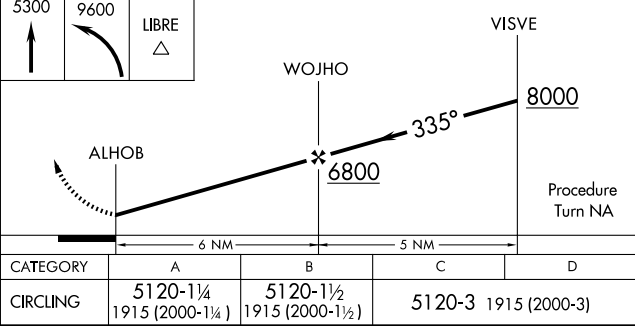
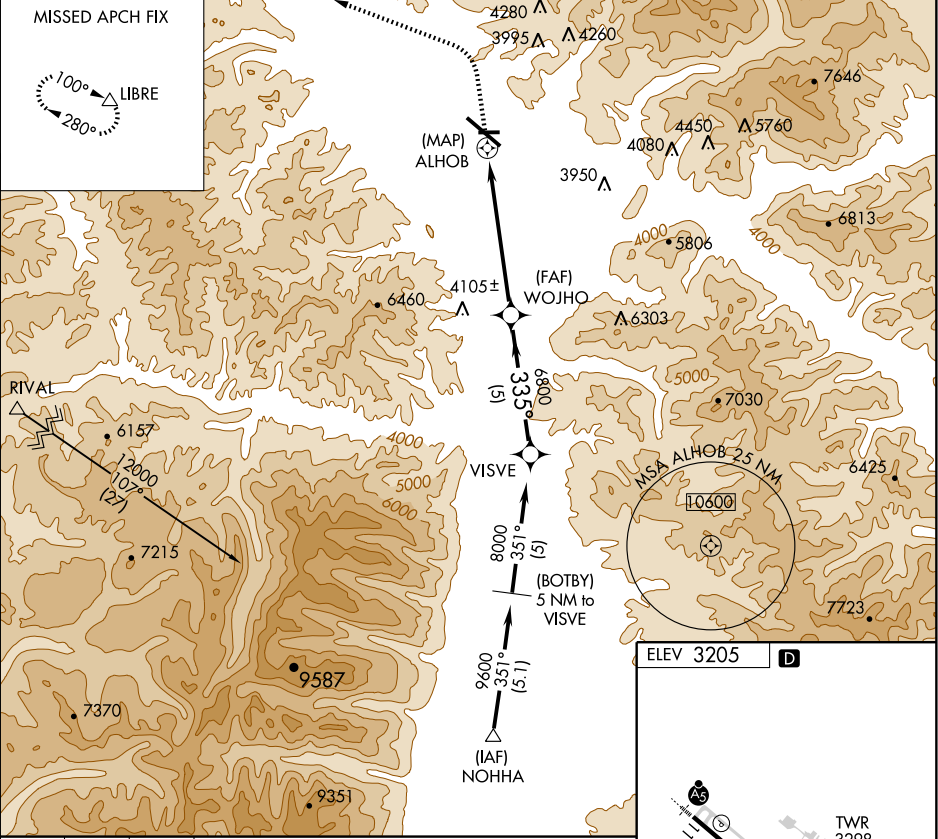


NW-1, 14 JAN 2010 to 11 FEB 2010

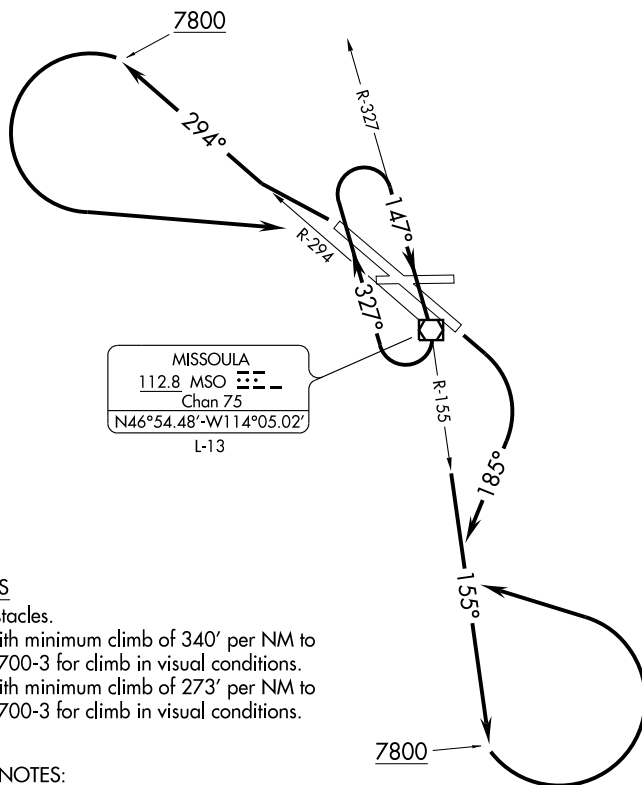
APP CRS	Rwy Idg	N/A
335°	TDZE	N/A
	Apt Elev	3205

 NA	MISSED APPROACH: Climb to 5300 then climbing left turn to 9600 direct LIBRE WP and hold.
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ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 377.175	GND CON 121.9	UNICOM 122.95
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ATIS 126.65
GND CON
121.9
MISSOULA TOWER ★
118.4 (CTAF) 377.175
SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

**TAKE-OFF MINIMUMS**

RWY 7, 25: NA- Obstacles.

RWY 11: Standard with minimum climb of 340' per NM to 7800, or 2700-3 for climb in visual conditions.

RWY 29: Standard with minimum climb of 273' per NM to 7800, or 2700-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES:

RWY 11: Tree 505' from DER, 171' left of centerline, 100' AGL/3300' MSL.

Fence 38' from DER, 487' right of centerline, 21' AGL/3213' MSL

RWY 29: Multiple AAOs beginning 6.5 NM from DER, 1.5 NM left of centerline, up to 200' AGL/4639' MSL.

NOTE: Chart not to scale.

**DEPARTURE ROUTE DESCRIPTION**

TAKE-OFF RUNWAY 11: Climbing right turn heading 185° to intercept MSO R-155, southeast bound to 7800, thence. . . . or, climb in visual conditions to cross MSO VOR/DME southeast bound at or above 5800, continue climb to 7800 via MSO VOR/DME R-155, thence. . . .

TAKE-OFF RUNWAY 29: Climb via MSO R-294 to 7800, then climbing left turn via MSO R-294 to MSO VOR/DME, climb in MSO VOR/DME holding pattern to MEA/MCA for route of flight or, climb in visual conditions to cross MSO VOR/DME southeast bound at or above 5800, continue climb to 7800 via MSO VOR/DME R-155, thence. . . .

. . . .climbing left turn via MSO VOR/DME R-155 to MSO VOR/DME, climb in MSO VOR/DME holding pattern to MEA/MCA for route of flight.

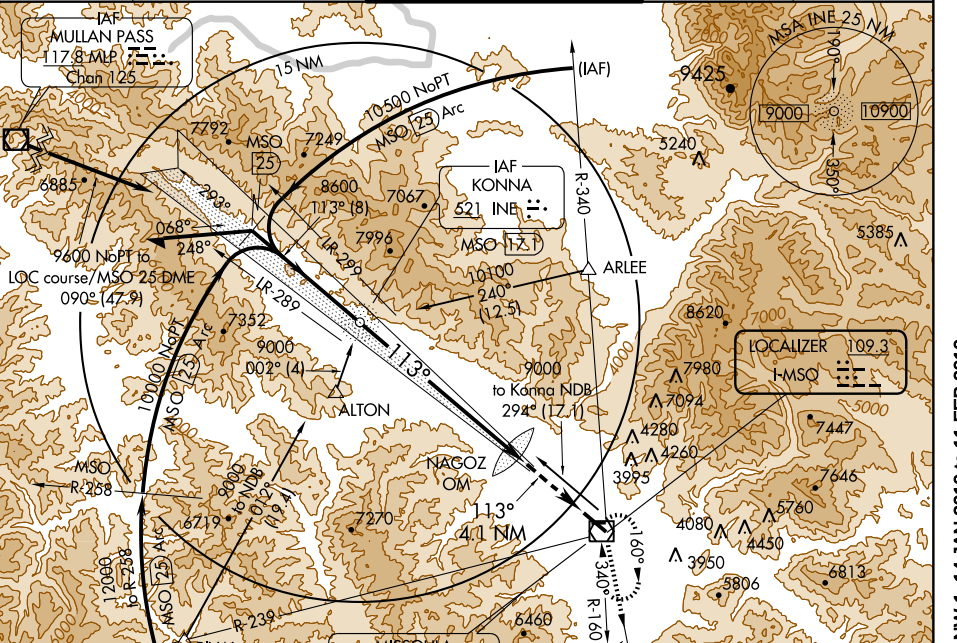
LOC I-MSO	APP CRS	Rwy Idg	9501
109.3	113°	TDZE	3200
		Apt Elev	3205

Inoperative table does not apply.

MALSR

MISSED APPROACH: Climb direct MSO VOR/DME then climbing right turn to 8000 outbound on MSO R-152 then climbing left turn to 9000 inbound on the MSO R-152 to MSO VOR/DME and hold.

ATIS	SPOKANE APP CON ★	MISSOULA TOWER ★	GND CON	UNICOM
126.65	124.9 298.95	118.4 (CTAF) 377.175	121.9	122.95



ADF or DME REQUIRED

Remain within 10 NM

9000

293°

113°

GS 3.00° TCH 45

8600

10.8 NM

0.9

Fly Visual 113° 4.1 NM

CATEGORY	A	B	C	D
S-ILS 11	4550-5 1350 (1400-5)			
S-LOC 11	NA			
CIRCLING	NA			

REIL Rwy 29

MIRL Rwy 7-25

HIRL Rwy 11-29

ELEV 3205

D

Fly Visual 113° 4.1 NM

TDZE 3200

TWR 3298

4612 X 75

3250

25

29

NW-1. 14 JAN 2010 to 11 FEB 2010

KONNA TWO DEPARTURE

SL-266 (FAA)

MISSOULA INTL (MSO)

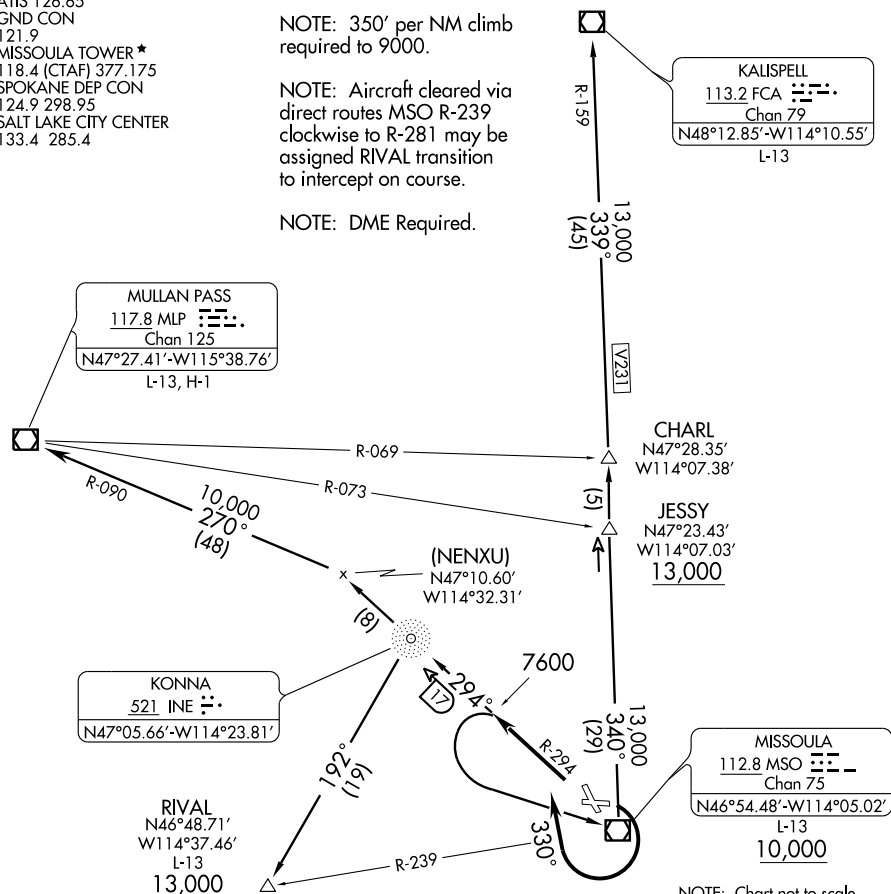
MISSOULA, MONTANA

ATIS 126.65
GND CON
121.9
MISSOULA TOWER *
118.4 (CTAF) 377.175
SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

NOTE: 350' per NM climb
required to 9000.

NOTE: Aircraft cleared via
direct routes MSO R-239
clockwise to R-281 may be
assigned RIVAL transition
to intercept on course.

NOTE: DME Required.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 7 AND 25: Not authorized.

TAKE-OFF RUNWAY 11: Climbing right turn heading 330° to intercept MSO R-294, then climb to 7600' via MSO R-294, then climb via (transition).

TAKE-OFF RUNWAY 29: Intercept MSO R-294 immediately after departure, then climb to 7600' via MSO R-294, then climb via (transition).

KALISPELL TRANSITION (KONNA2.FCA): After leaving 7600', make a climbing left turn direct MSO VOR/DME, then via V231 to FCA VOR/DME.

MISSOULA TRANSITION (KONNA2.MSO): After leaving 7600', make a climbing left turn direct MSO VOR/DME.

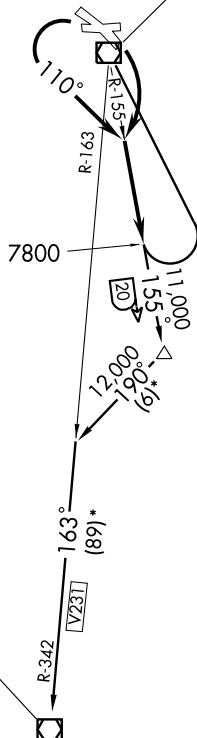
MULLAN PASS TRANSITION (KONNA2.MLP): After reaching 7600', continue on MSO R-294 and MLP R-090 to MLP VOR/DME.

RIVAL TRANSITION (KONNA2.RIVAL): After reaching 7600', continue on MSO R-294 and INE NDB 192° bearing to RIVAL INT.

ATIS 126.65
 GND CON
 121.9
 MISSOULA TOWER★
 118.4 (CTAF) 377.175
 SPOKANE DEP CON
 124.9 298.95
 SALT LAKE CITY CENTER
 133.4 285.4

MISSOULA
112.8 MSO 
Chan 75
N46°54.48'-W114°05.02'

L-13
10,000



*Approx dist

NOTE: This SID requires a minimum climb of 400' per NM to 11,000'.

NOTE: DME required.

NOTE: Chart not to scale.

SALMON
113.5 LKT 
Chan 82
°01.28'-W114°05.05'
[-13, H-1]

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Not authorized.

TAKE-OFF RUNWAY 11: Climbing right turn to intercept MSO R-155, thence....

TAKE-OFF RUNWAY 25 OR 29: Climbing left turn heading 110° to intercept MSO R-155, thence....

....climb to 7800' via MSO R-155; thence climb via (transition).

MISSOULA TRANSITION (MZULA1.MSO): After leaving 7800', make a climbing left turn direct to MSO VOR/DME.

SALMON TRANSITION (MZULA1.LKT): After reaching 7800' continue on MSO R-155 until VICTO INT. Then via 190° heading and V231 to LKT VOR/DME.

RNAV (GPS) Y RWY 11

MISSOULA INTL (MSO)

WAAS CH 65715 W11B	APP CRS 113°	Rwy Idg TDZE Apt Elev 9501 3200 3206
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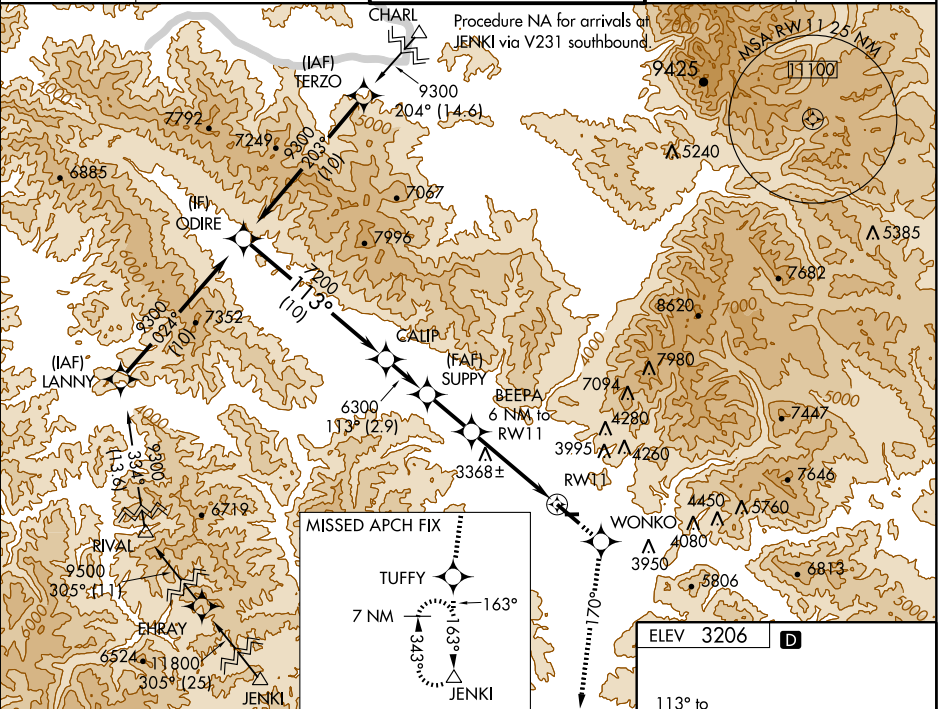
⚠ Inoperative table does not apply to LNAV % Cats. A and B. For inoperative MALS, increase LPV visibility all Cats. to 2 ½ miles. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
Missed approach requires minimum climb of 290 feet per NM to 8300.

MALS

A5

MISSED APPROACH: Climb to 12000 direct WONKO and via track 170° to TUFFY and via track 163° to JENKI and hold.

ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 0 377.175	GND CON 121.9	UNICOM 122.95
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Procedure Turn NA ODIRE

9300 → **7200** → **6300** → **5220***

GS 3.08° TCH 55

VGSI and RNAV glidepath not coincident.

10 NM → 2.9 NM → 3.1 NM → 2.9 NM → 3.1 NM

WONKO trk 170° TUFFY trk 163° JENKI

*3.1 NM to RW11 *LNAV only.

CATEGORY	A	B	C	D
LPV DA#	3896-2 696 (700-2)			
LNAV MDA#	4220-¾ 1020 (1100-¾)	4220-1 1020 (1100-1)	4220-2½ 1020 (1100-2½)	
LNAV MDA%	5100-1¼ 1900 (2000-1¼)	5100-1½ 1900 (2000-1½)	5100-2½ 1900 (2000-2½)	
CIRCLING	5100-1¼ 1894 (1900-1¼)	5100-1½ 1894 (1900-1½)	5100-3 1894 (1900-3)	

ELEV 3206 **D**

113° to RW11

TDZE 3200

TWR 3298

4612 X 75

9501 X 150

REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29 **1**

APP CRS	Rwy Idg	9501
294°	TDZE	3205
	Apt Elev	3205

RNAV (RNP) RWY 29
MISSOULA INTL (MSO)

MISSOULA INTL (MSO)

T RF and GPS required. When local altimeter setting not received, procedure NA. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 43°C (109°F).
* Missed approach requires minimum climb of 215 feet per NM to 5000.

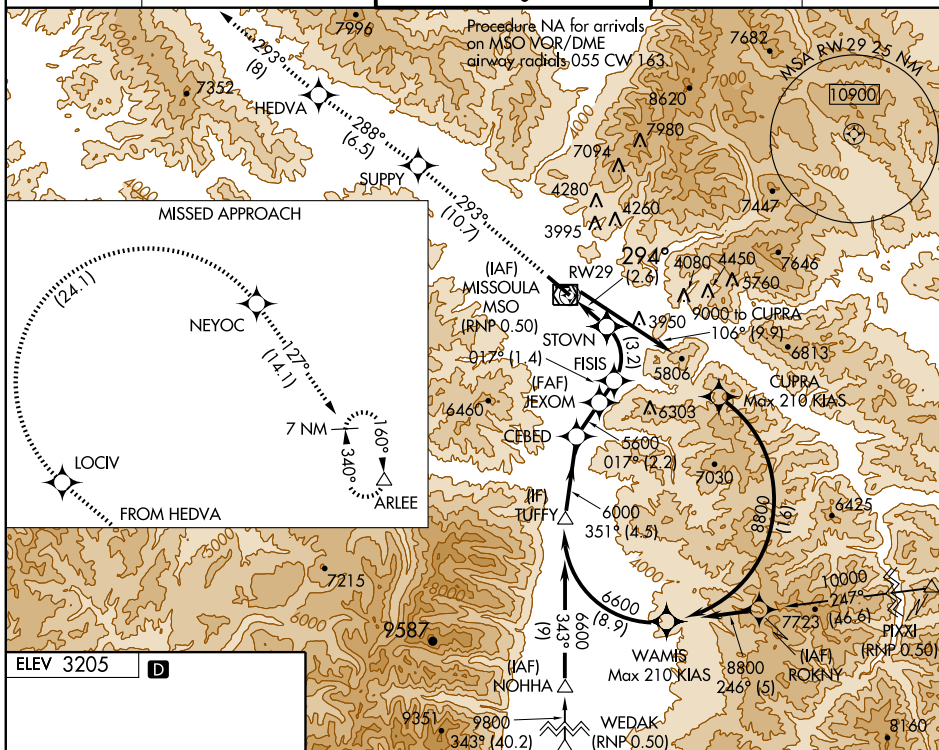
MISSED APPROACH: Climb to 11000 via track 293° to SUPPY, and via track 288° to HEDVA, and via track 293° to LOCIV, and via right turn to NEYOC, and via track 127° to ARLEE and hold.

ATIS
126.65

SPOKANE APP CON ★
124.9 298.95

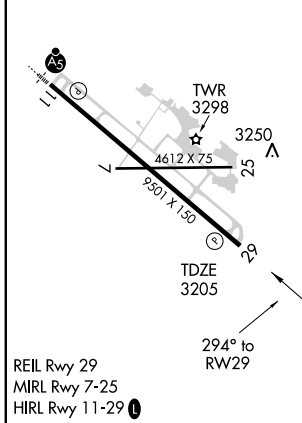
MISSOULA TOWER ★
118.4 (CTAF) **L** 377-175

GND COM
121.9

UNICOM
122.95

ELEV 3205

D



11000 ↑ trk 293°		SUPPLY 		trk 288° 		HEDVA	
RW29 		STOVN 4089		FISIS 5135		JEXOM 5600	
294°		017°		017°		351°	
2.6 NM		3.2 NM		1.4 NM		2.2 NM	
6000		6000		5600		6600	
CATEGORY		A		B		C	
RNP 0.30 DA*		3523-1		318 (400-1)		TUFFY	
RNP 0.30 DA		3581-1 1/4		376 (400-1 1/4)		GP 3.00° TCH 50°	

**SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED**

APP CRS	Rwy Idg	9501
113°	TDZE	3200
	Apt Elev	3206

RNAV (RNP) Z RWY 11

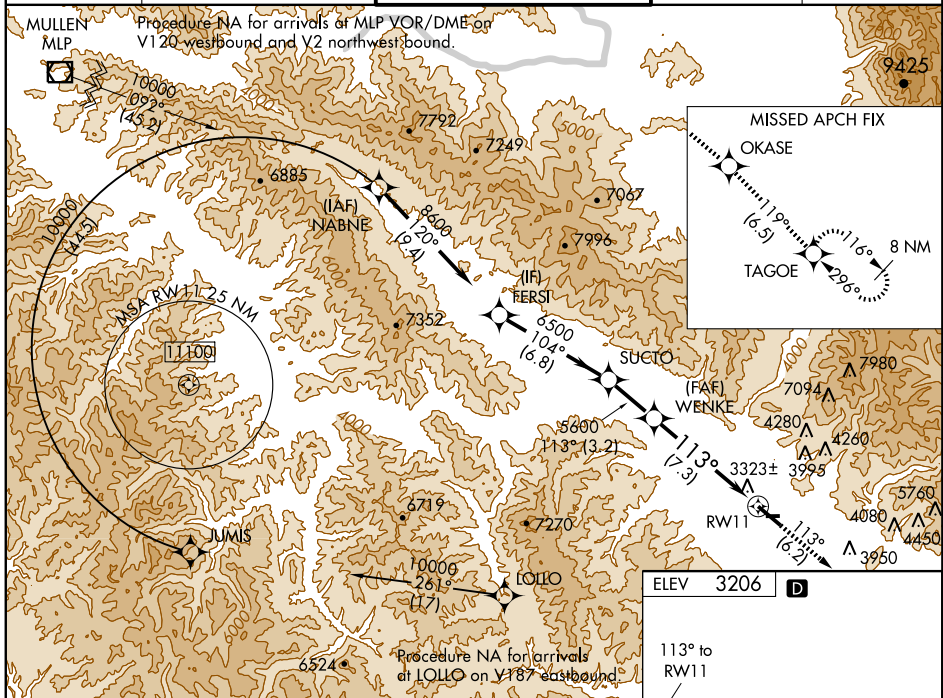
MISSOULA INTL (MSO)

▼ GPS required. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-6°F) or above 43°C (109°F).
▲ For inoperative MALSR increase RNP 0.12 visibility all Cats to 1 1/4 , RNP 0.30 visibility all Cats to 2 1/2.
**** Missed approach requires minimum climb of 425 feet per NM to 8300.**
Missed approach requires minimum climb of 350 feet per NM to 8300, if unable see RNAV (GPS) Y RWY 11.

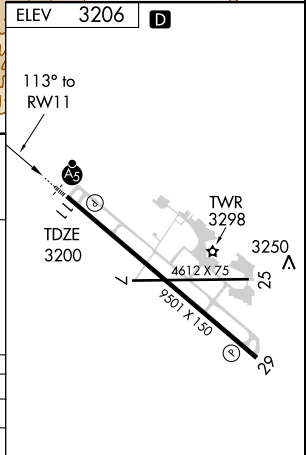


MISSED APPROACH:
 Climb to 13000 via track 113° to OKASE, and via track 119° to TAGOE and hold, continue climb-in-hold to 13000.

ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 0 377.175	GND CON 121.9	UNICOM 122.95
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Procedure Turn NA	FERSI	SUCTO	OKASE	trk 113°	WENKE	trk 119°	TAGOE
8600	104°	6500	113°	5600	7.3 NM		
GP 3.00° TCH 45	6.8 NM	3.2 NM					
CATEGORY	A	B	C	D			
RNP 0.12 DA **		3518-3/4	318 (400-3/4)				
RNP 0.30 DA ##		3880-2	680 (700-2)				



SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

REIL Rwy 29
 MRL Rwy 7-25
 HIRL Rwy 11-29

VOR/DME MSO 112.8 Chan 75	APP CRS 105°	Rwy Idg TDZE Apt Elev 3201	N/A N/A 3201
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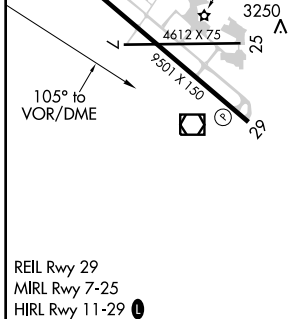
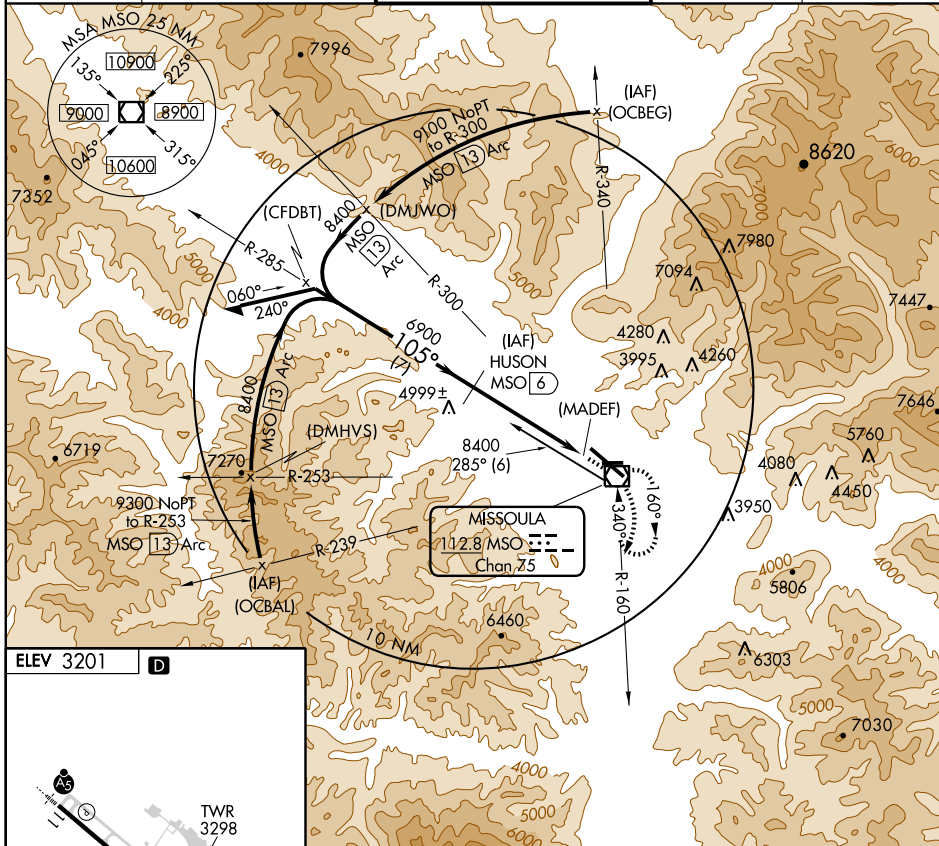
VOR/DME or GPS-A

MISSOULA INTL (MSO)



MISSED APPROACH: Climb direct to MSO VOR/DME, then climbing right turn to 8000 outbound on R-160 then climbing left turn to 9000 inbound on the R-160 to MSO VOR/DME and hold.

ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 0 377.175	GND CON 121.9	UNICOM 122.95
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Remain within 10 NM	HUSON MSO (6)	MSO 112.8	8000 MSO R-160 outbound	9000 MSO R-160 inbound	MSO 112.8
8400	285°	105°	6900	(MADEF) MSO 1.4	VOR/DME
4.6 NM					
CATEGORY	A	B	C	D	
CIRCLING	5060-1¼ 1859 (1900-1¼)	5060-1½ 1859 (1900-1½)	5060-3	1859 (1900-3)	

VOR/DME MSO 112.8 Chan 75	APP CRS 335°	Rwy Idg N/A TDZE N/A Apt Elev 3201
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VOR/DME or GPS-B
MISSOULA INTL (MSO)

MISSOULA INTL (MSO)



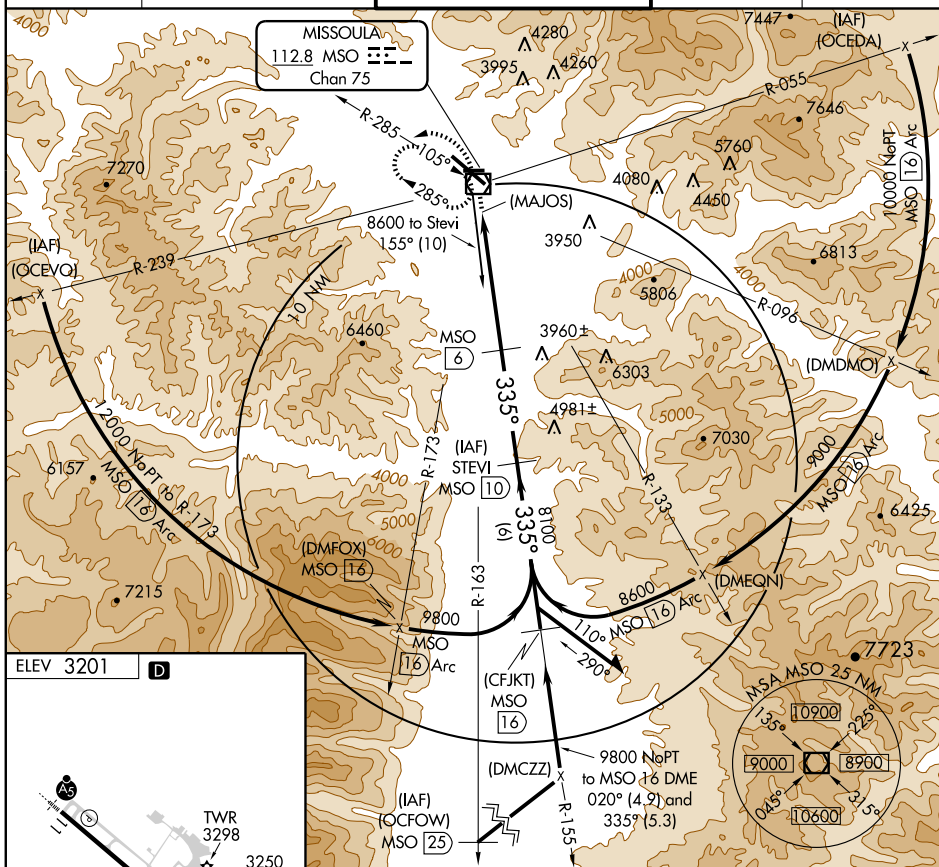
MISSED APPROACH: Climb direct MSO VOR/DME, then climbing left turn to 7500 on R-285 then climbing left turn to 9000 direct MSO VOR/DME and hold.

ATIS
126.65

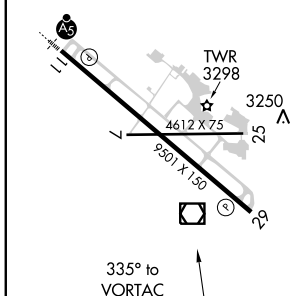
SPOKANE APP CON ★
124.9 298.95

MISSOULA TOWER ★
118.4 (CTAF) **L** 377.175

GND CON
121.9

UNICOM
122.95

ELEV 3201



REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29 **L**

	MSO	7500	9000	MSO	STEV	Remain within 10 NM	
	112.8	MSO R-285		112.8	MSO 10	155°	8600
VOR/DME	(MAJOS)	MSO 1	MSO 6	6500	8100	335°	8600
	1 NM	5 NM	4 NM				
CATEGORY	A	B	C	D			
CIRCLING	4500-1¼ 1299 (1300-1¼)	4500-1½ 1299 (1300-1½)	4600-3 1399 (1400-3)	4740-3 1539 (1600-3)			

RNAV (GPS)-A

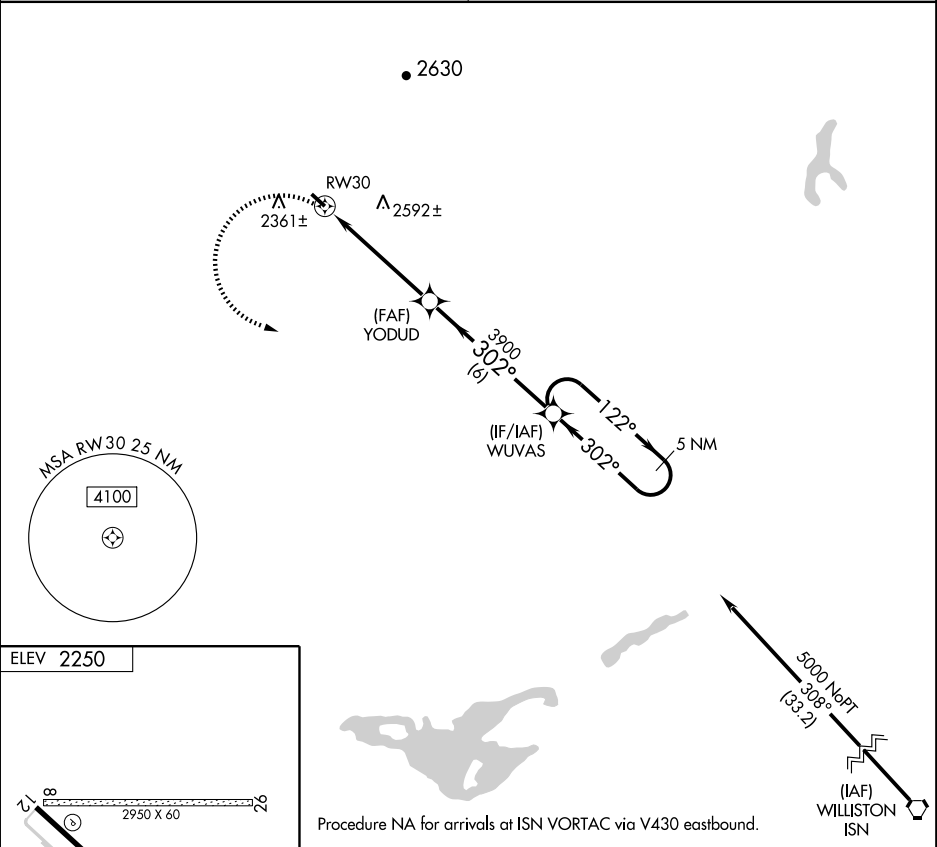
PLENTYWOOD/ SHER-WOOD (PWD)

APP CRS	Rwy Idg	N/A
302°	TDZE	N/A
	Apt Elev	2250

Procedure NA at night. DME/DME RNP- 0.3 NA.
Use Sloulin Fld Intl, ND altimeter setting, if not received, use Wolf Point/
L.M. Clayton altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climbing left turn
to 5000 direct WUVAS and hold.

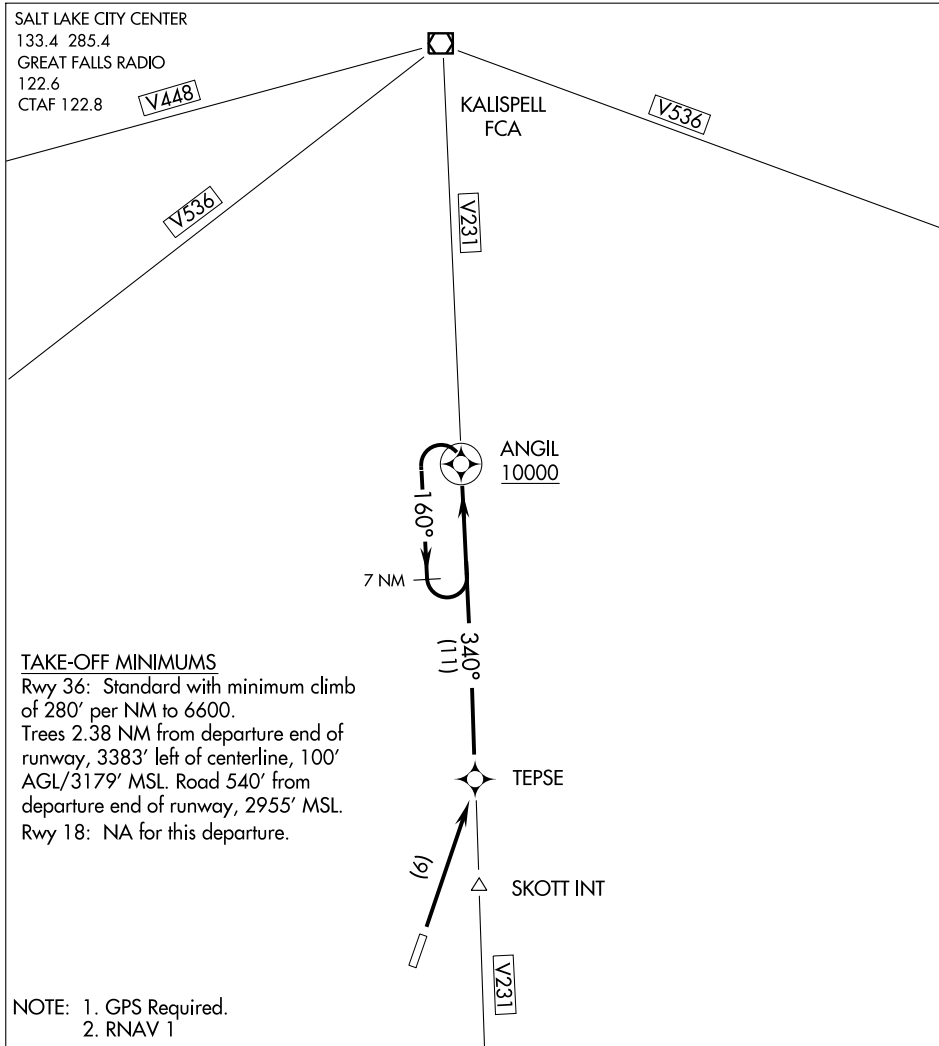
SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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		5 NM Holding Pattern	
		122° → 5000 ← 302°	
		3900	
5 NM		6 NM	
CATEGORY	A	B	C D
CIRCLING	2840-1	590 (600-1)	NA

(ANGIL1.ANGIL) 07074 SL-9529 (FAA)
ANGIL ONE DEPARTURE (RNAV) (OBSTACLE)

POLSON (8S1)
POLSON, MONTANA



NW-1, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 36: Climb direct to TEPSE WP, then via 340° track to ANGIL WP,
Thence....

....Climb in the ANGIL WP holding pattern to cross ANGIL WP at or above 10,000 prior
to proceeding on course.

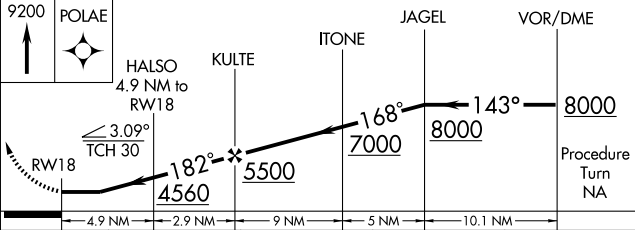
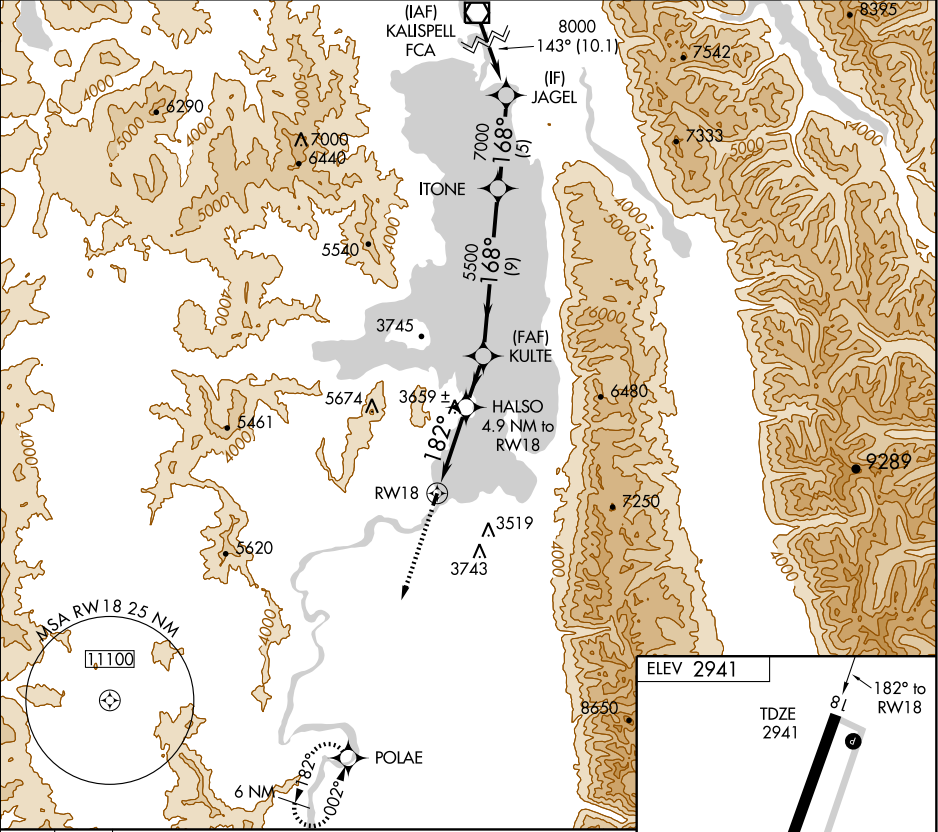
APP CRS	Rwy Idg	4195
182°	TDZE	2941
	Apt Elev	2941

RNAV (GPS) RWY 18

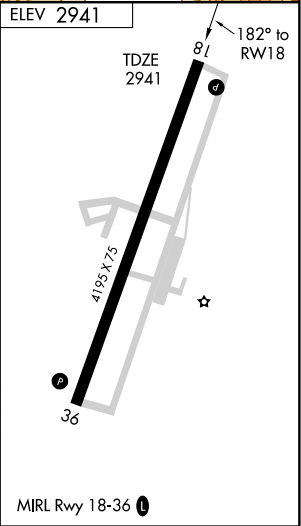
POLSON (8S1)

▼ NA Procedure NA at night. DME/DME RNP- 0.3 NA. Use Glacier Park Intl altimeter setting.	MISSED APPROACH: Climb to 9200 direct POLAE and hold.
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GLACIER PARK INTL ASOS 132.625	SALT LAKE CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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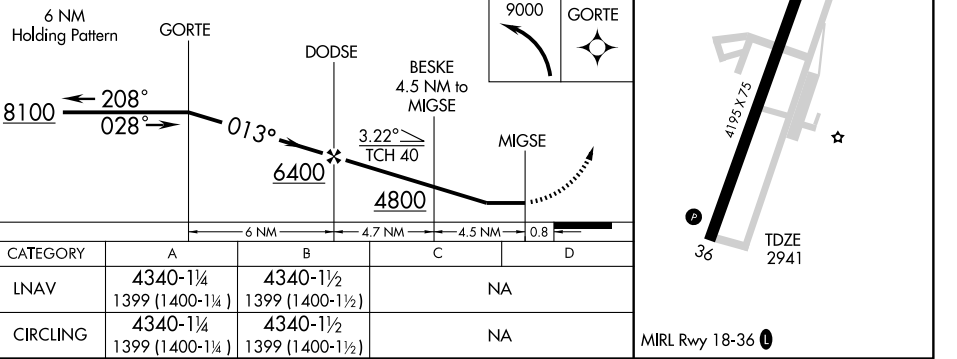
CATEGORY	A	B	C	D
RNAV MDA	4480-1¼ 1539 (1600-1¼)	4480-1½ 1539 (1600-1½)	NA	NA
CIRCLING	4480-1¼ 1539 (1600-1¼)	4480-1½ 1539 (1600-1½)	NA	NA



Procedure NA at night.
 DME/DME RNP-0.3 NA.
 Use Glacier Park Intl altimeter setting.

MISSED APPROACH: Climbing left turn to 9000 direct GORTE WP and hold.

GLACIER PARK INTL ASOS 132.625	SALT LAKE CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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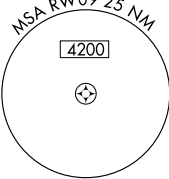
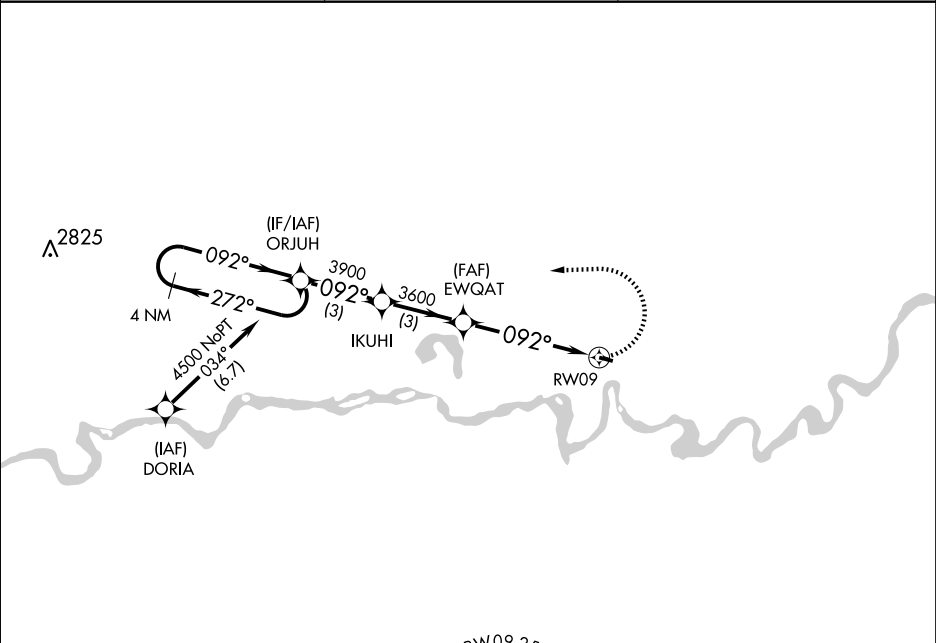


APP CRS	Rwy Idg	3030
092°	TDZE	2005
	Apt Elev	2005

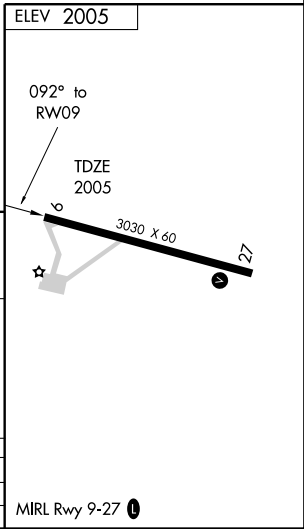
RNAV (GPS) RWY 9
POPLAR (42S)

▲ NA	Use Wolf Point altimeter setting. GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climbing left turn to 4500 direct ORJUH WP and hold.
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WOLF POINT ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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4 NM Holding Pattern				
CATEGORY	A	B	C	D
LNAV MDA	2480-1	475 (500-1)	NA	
CIRCLING	2500-1	495 (500-1)	NA	



MIRL Rwy 9-27 0

APP CRS
273°

Rwy Idg	3030
TDZE	2005
Apt Elev	2005

RNAV (GPS) RWY 27

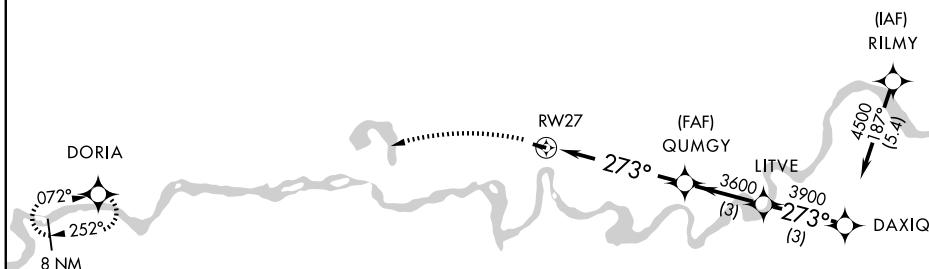
POPLAR (42S)

A NA Use Wolf Point altimeter setting.
GPS or RNP-0.3 required. DME/DME RNP-0.3 not authorized.

MISSED APPROACH: Climbing left turn to 6000 direct DORJA WP and hold.

WOLF POINT ASOS
118.325

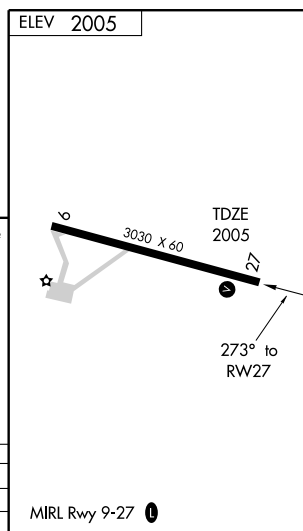
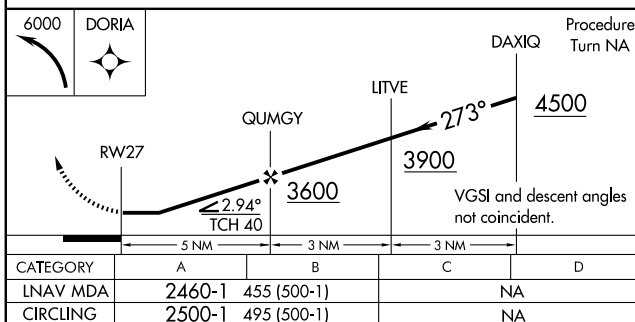
SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF) **L** $\Delta 2800$

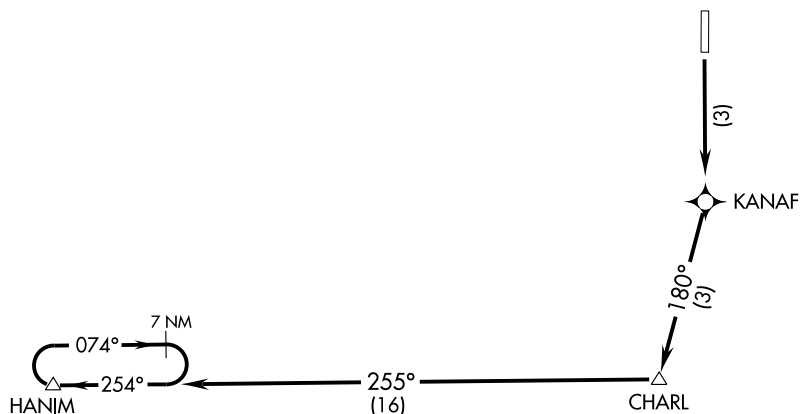
MSA RW27 25 NM

4200

ELEV 2005



SALT LAKE CITY CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
CTAF 122.8



NOTE: RNAV 1.

NOTE: GPS required.

TAKE-OFF MINIMUMS:

Rwy 16: Standard.

Rwy 34: NA. See RONAN DEPARTURE.

TAKE-OFF OBSTACLE NOTE:

Rwy 16: Tree 485' from DER, 386' left of centerline, 50' AGL/3149' MSL.

NOTE: Chart not to scale



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 13000 direct KANAF and via track 180° to CHARL and via track 255° to HANIM and hold, continue climb-in-hold to 13000 before proceeding on course.

WAAS CH 45814 W16A	APP CRS 165°	Rwy Idg TDZE Apt Elev 4800 3086 3086
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RNAV (GPS) RWY 16

RONAN (7S)

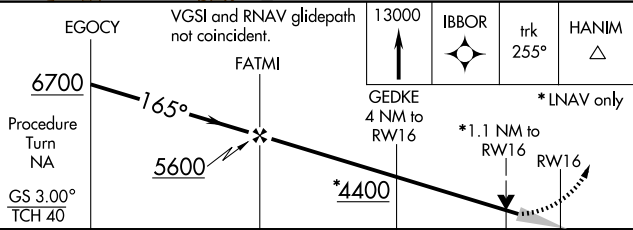
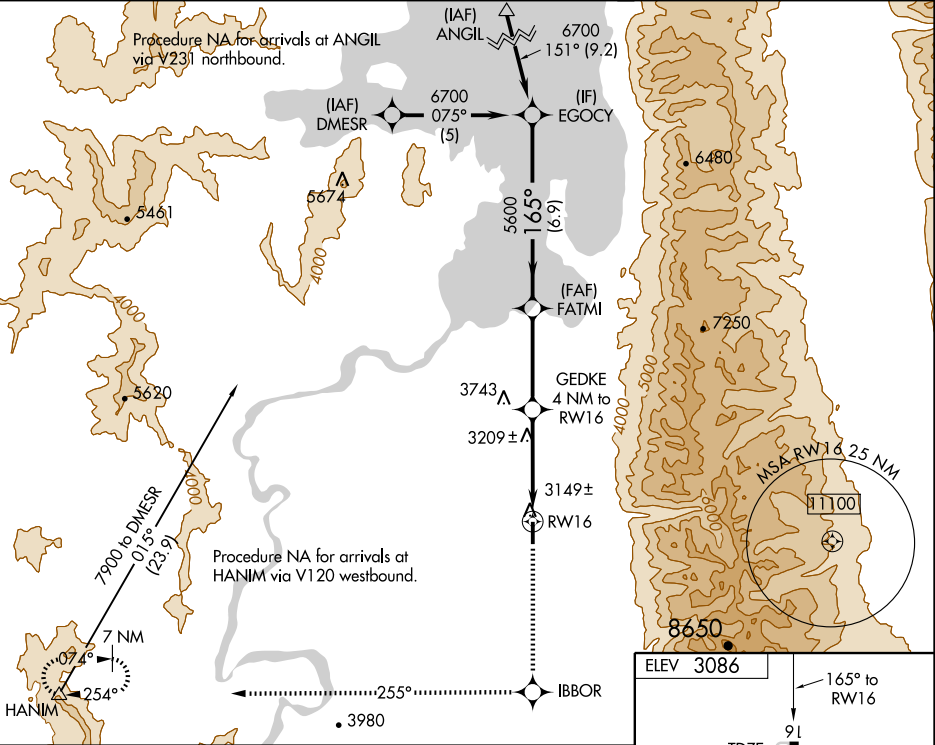
▲

NA

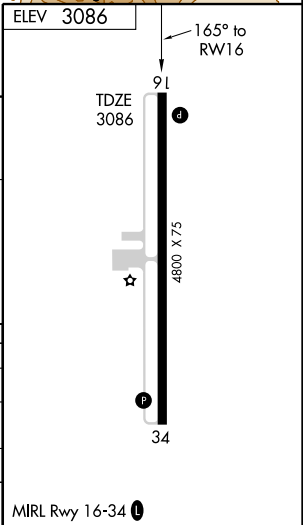
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 54°C (130°F).
Circling NA east of Rwy 16 and 34. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 13000 direct IBBOR and via track 255° to HANIM and hold, continue climb-in-hold to 13000.

AWOS-3 122.8	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF)
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CATEGORY		A	B	C	D
LPV	DA	3386-1	300 (300-1)		NA
LNAV/VNAV	DA	3531-1½	445 (500-1½)		NA
LNAV	MDA	3460-1	374 (400-1)		NA
CIRCLING		3460-1 374 (400-1)	3540-1 454 (500-1)		NA



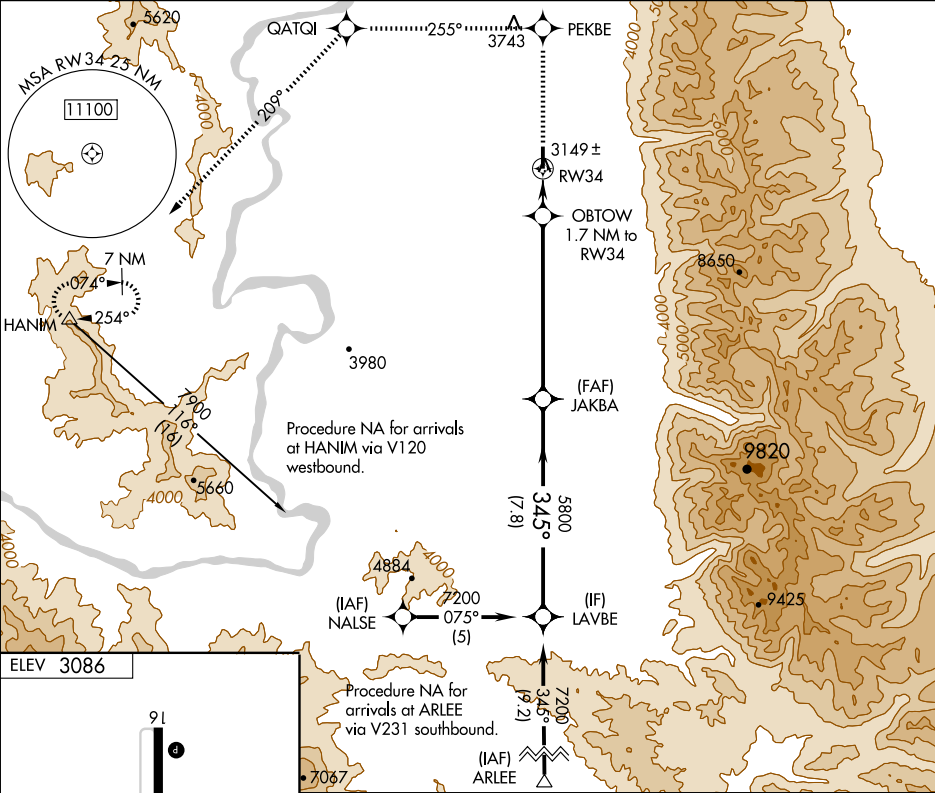
NW-1. 14 JAN 2010 to 11 FEB 2010

WAAS CH 86614 W34A	APP CRS 345°	Rwy Idg TDZE Apt Elev 4800 3081 3086
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RNAV (GPS) RWY 34
RONAN (7S0)

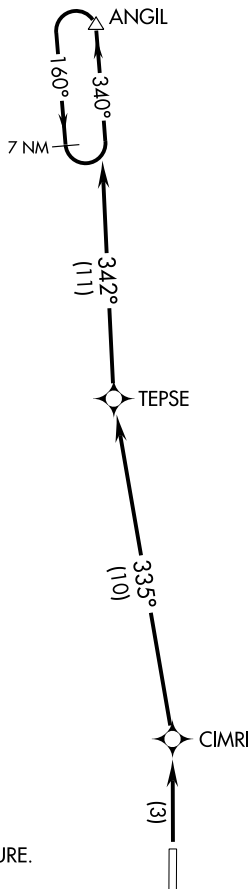
Circling NA east of Rws 16 and 34. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 13000 direct PEKBE and via track 255° to QATQI and via track 209° to HANIM and hold, continue climb-in-hold to 13000.
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AWOS-3 122.8	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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ELEV 3086		91		4800 X 75		TDZE 3081		34		345° to RW34	
MIRL Rwy 16-34		13000		PEKBE		QATQI		HANIM		VGS1 and RNAV glidepath not coincident.	
* LNAV only		trk 255°		trk 209°		OBTOW 1.7 NM to RW34		JAKBA		LAVBE	
RW34		* 1 NM to RW34		3660*		5800		7200		Procedure Turn NA	
1 NM		0.7 NM		6.5 NM		7.8 NM		GS 3.00°		TCH 40	
CATEGORY		A		B		C		D			
LPV DA		3392-1		311 (400-1)				NA			
LNAV MDA		3400-1		319 (400-1)				NA			
CIRCLING		3460-1		3540-1				NA			
		374 (400-1)		454 (500-1)							

SALT LAKE CITY CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
CTAF 122.8



NOTE: RNAV 1.

NOTE: GPS required.

TAKE-OFF MINIMUMS:

Rwy 16: NA. See HANIM ONE DEPARTURE.

Rwy 34: Standard.

TAKE-OFF OBSTACLE NOTES:

Rwy 34: Building 158' from DER, 370' left of centerline, 40' AGL/3130' MSL.

Tree 1358' from DER, 556' left of centerline, 50' AGL/3149' MSL.

NOTE: Chart not to scale



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb to 10000 direct CIMRI and via track 335° to TEPSE and via track 342° to ANGIL and hold, continue climb-in-hold to appropriate MEA before proceeding on course.

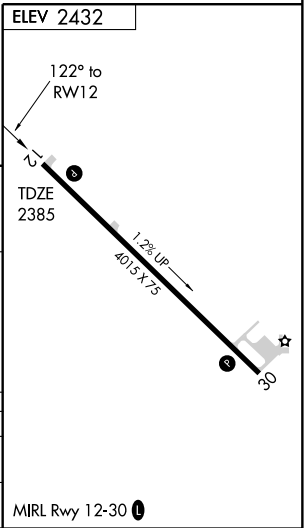
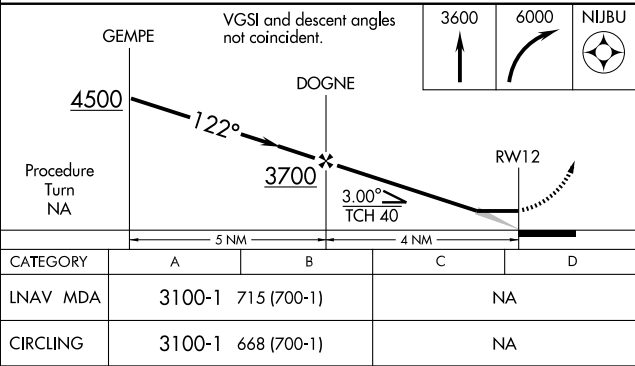
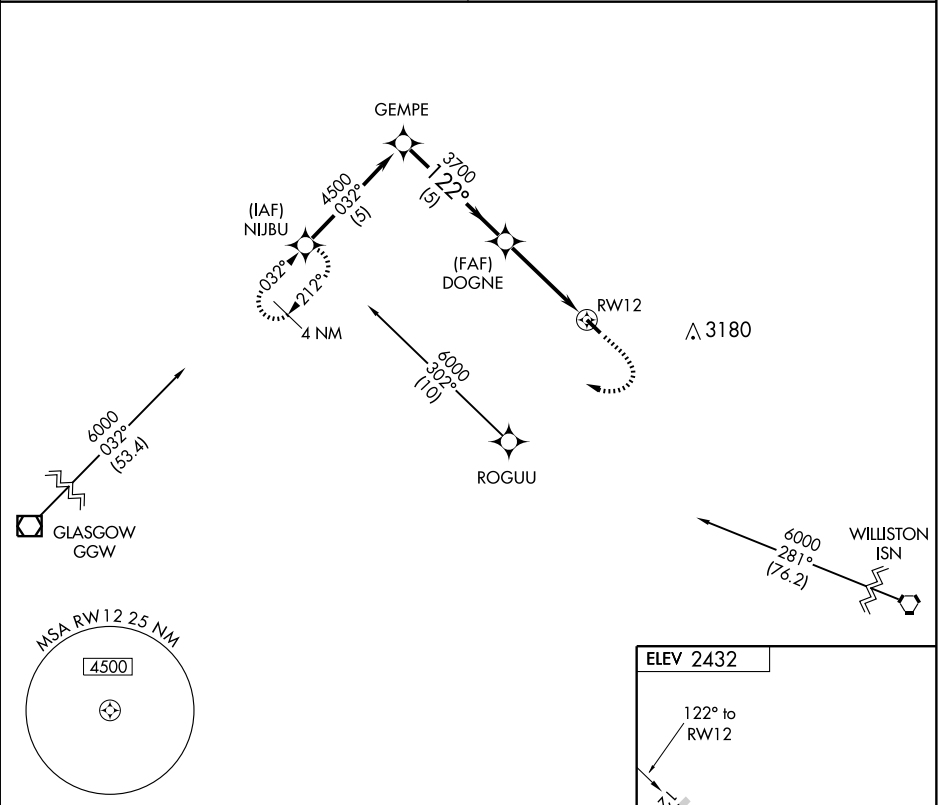
APP CRS	Rwy Idg	4015
122°	TDZE	2385
	Apt Elev	2432

RNAV (GPS) RWY 12

SCOBEY (9S2)

 GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 3600 then climbing right turn to 6000 direct NIJBU WP and hold.
 NA Use Wolf Point altimeter setting; when not received procedure not authorized.	

SALT LAKE CITY CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 
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NDB SBX
347

APP CR
213°

Rwy Idg	5004
TDZE	3443
Apt Elev	3443

NDB RWY 23
SHELBY (SBX)

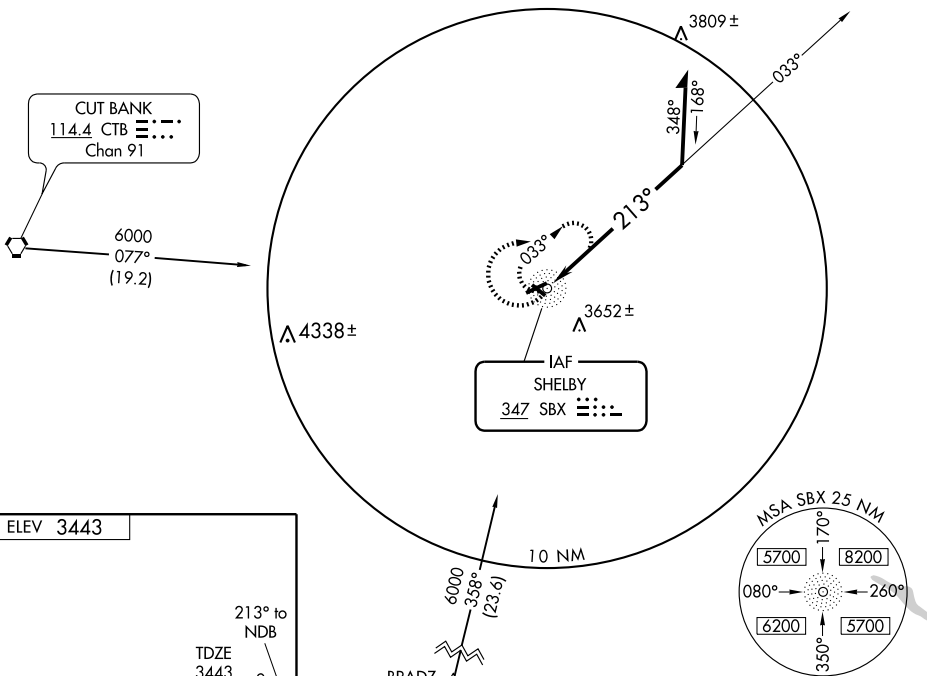


NA Use Cut Bank altimeter setting, if not received, use Great Falls altimeter setting and increase all MDAs 120 feet.

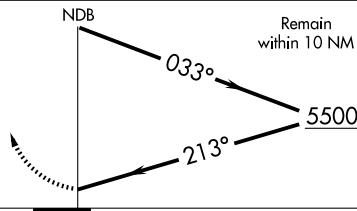
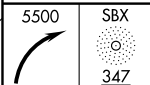
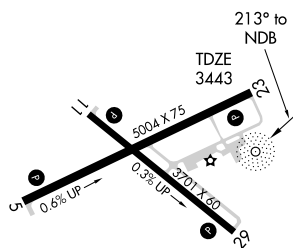
MISSED APPROACH: Climbing right turn to 5500 in SBX NDB holding pattern.

SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) **L**



NW-1. 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D
S-23	4240-1 797 (800-1)	4240-1 ¼ 797 (800-1 ¼)	4240-2 ¼ 797 (800-2 ¼)	NA
CIRCLING	4240-1 797 (800-1)	4240-1 ¼ 797 (800-1 ¼)	4240-2 ¼ 797 (800-2 ¼)	NA

MIRL Rwy 5-23 and 11-29 **L**

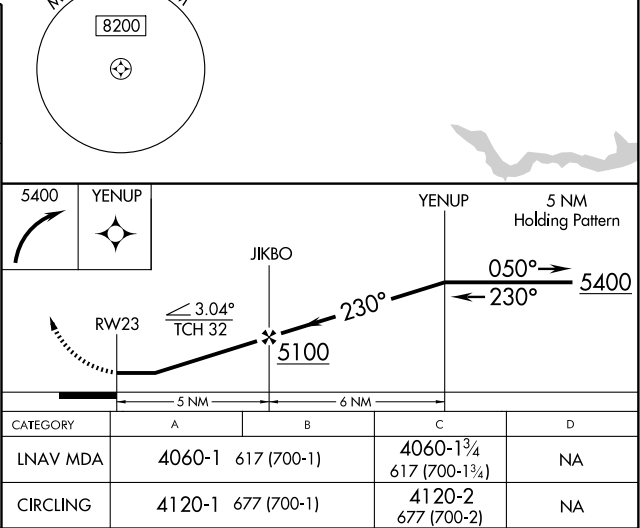
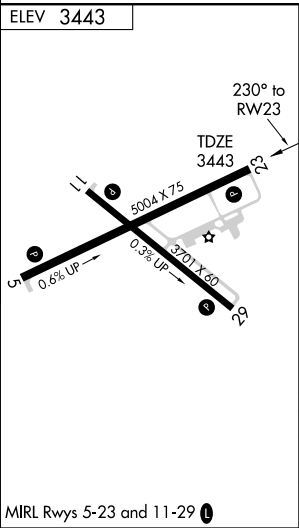
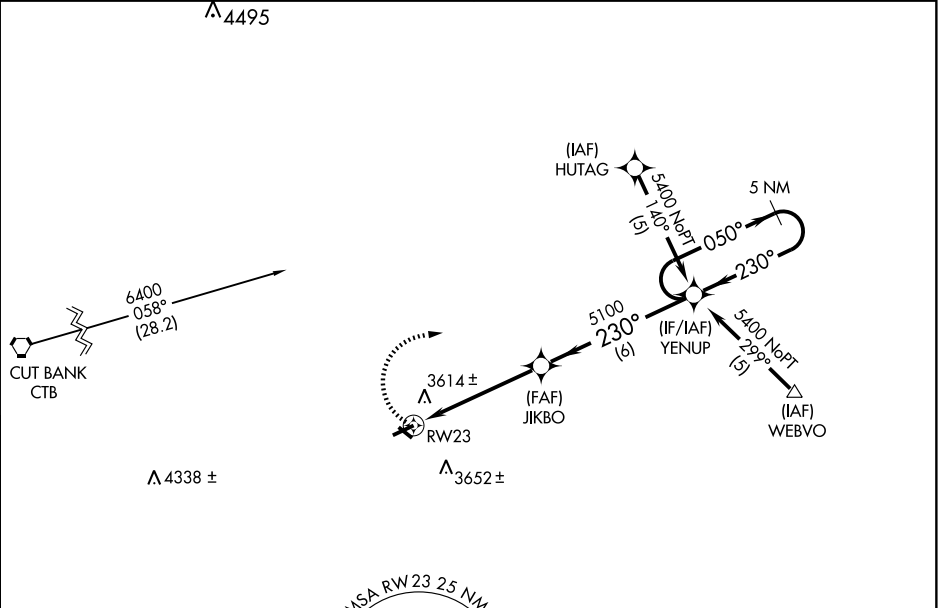
APP CRS	Rwy Idg	5004
230°	TDZE	3443
	Apt Elev	3443

RNAV (GPS) RWY 23

SHELBY (SBX)

▼ DME/DME RNP- 0.3 NA. Circling NA at night. ▲ NA Visibility reduction by helicopters NA. Use Cut Bank altimeter setting, if not received, use Great Falls altimeter setting and increase all MDAs 120 feet.	MISSED APPROACH: Climbing right turn to 5400 direct YENUP and hold.
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SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
S-1	2720-1	736 (800-1)	2720-2 736 (800-2)	2720-2¼ 736 (800-2¼)
CIRCLING	2720-1	736 (800-1)	2720-2 736 (800-2)	2720-2¼ 736 (800-2¼)

NDB SDY
359

APP CRS
164°

Rwy Idg	5705
TDZE	1979
Apt Elev	1984

NDB RWY 19
SIDNEY-RICHLAND MUNI (SDY)

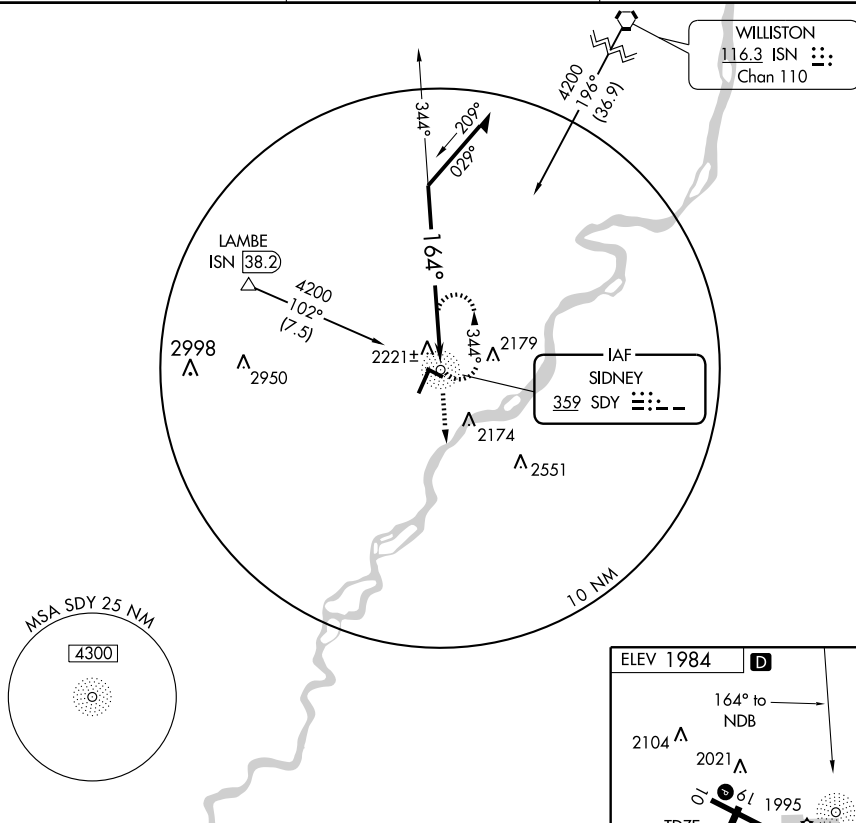


MISSED APPROACH: Climb to 4000 then direct SDY NDB and hold.

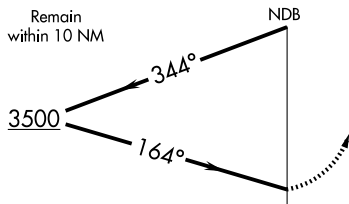
AWOS-3
119.275

GREAT FALLS RADIO
123.65

UNICOM
122.8 (CTAF) **L**



Remain
within 10 NM



4000



CATEGORY	A	B	C	D
S-19	2780-1 801 (800-1)	2780-1¼ 801 (800-1¼)	2780-2¼ 801 (800-2¼)	2780-2½ 801 (800-2½)
CIRCLING	2780-1 796 (800-1)	2780-1¼ 796 (800-1¼)	2780-2¼ 796 (800-2¼)	2780-2½ 796 (800-2½)

REIL Rwys 1,19, 10, and 28 **L**
MIRL Rwys 1-19 and 10-28 **L**

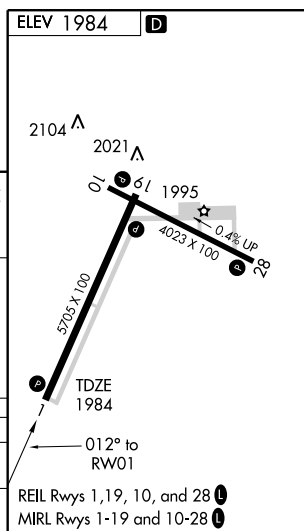
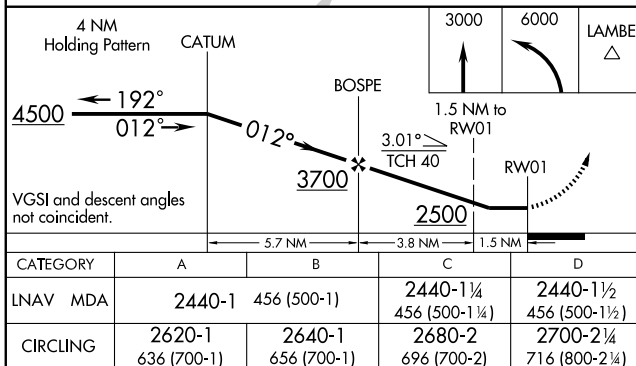
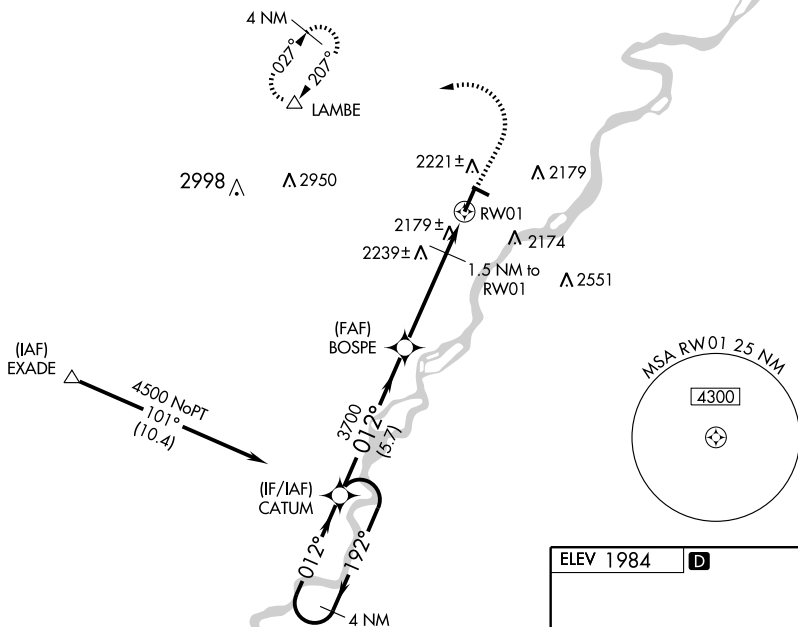
APP CRS 012°	Rwy Idg TDZE Apt Elev	5705 1984 1984
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RNAV (GPS) RWY 1
SIDNEY-RICHLAND MUNI (SDY)

A NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 then climbing left turn to 6000 direct LAMBE WP and hold.

AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 0
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APP CRS 192°	Rwy Idg TDZE Apt Elev	5705 1979 1984
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RNAV (GPS) RWY 19

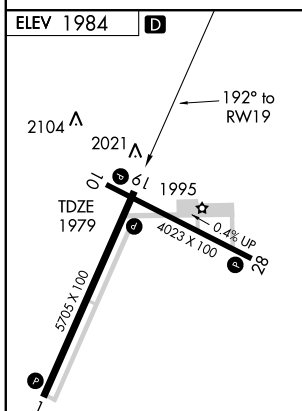
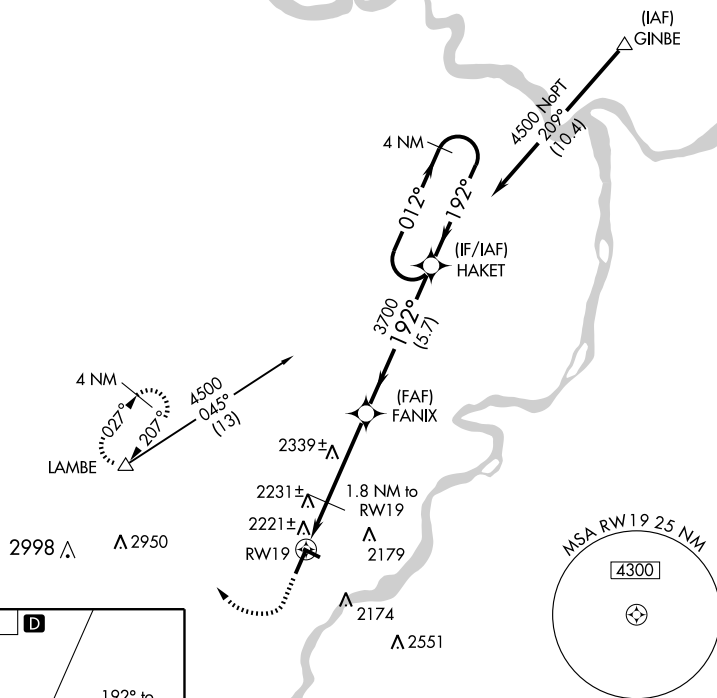
SIDNEY-RICHLAND MUNI (SDY)



A NA GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3000 then climbing right turn to 6000 direct LAMBE WP and hold.

AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) L
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CATEGORY	A	B	C	D
RNAV MDA	2500-1	521 (600-1)	2500-1½ 521 (600-1½)	2500-1¾ 521 (600-1¾)
CIRCLING	2620-1 636 (700-1)	2640-1 656 (700-1)	2680-2 696 (700-2)	2700-2½ 716 (800-2½)

REIL Rwy's 1, 19, 10, and 28 **L**MIRL Rwy 1-19 and 10-28 **L**

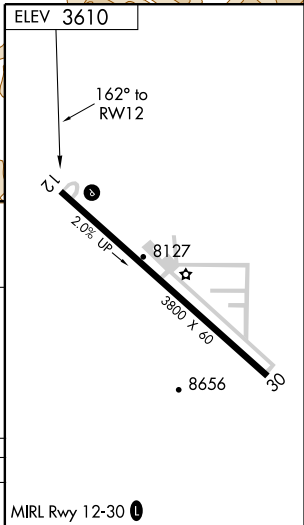
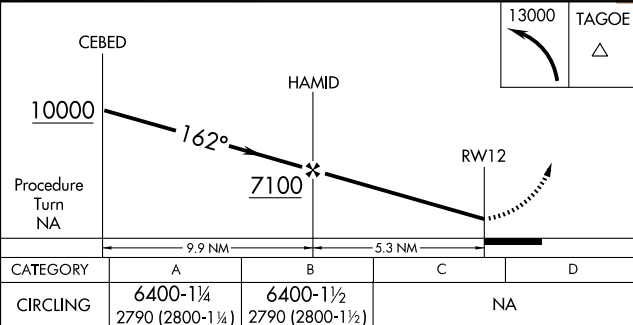
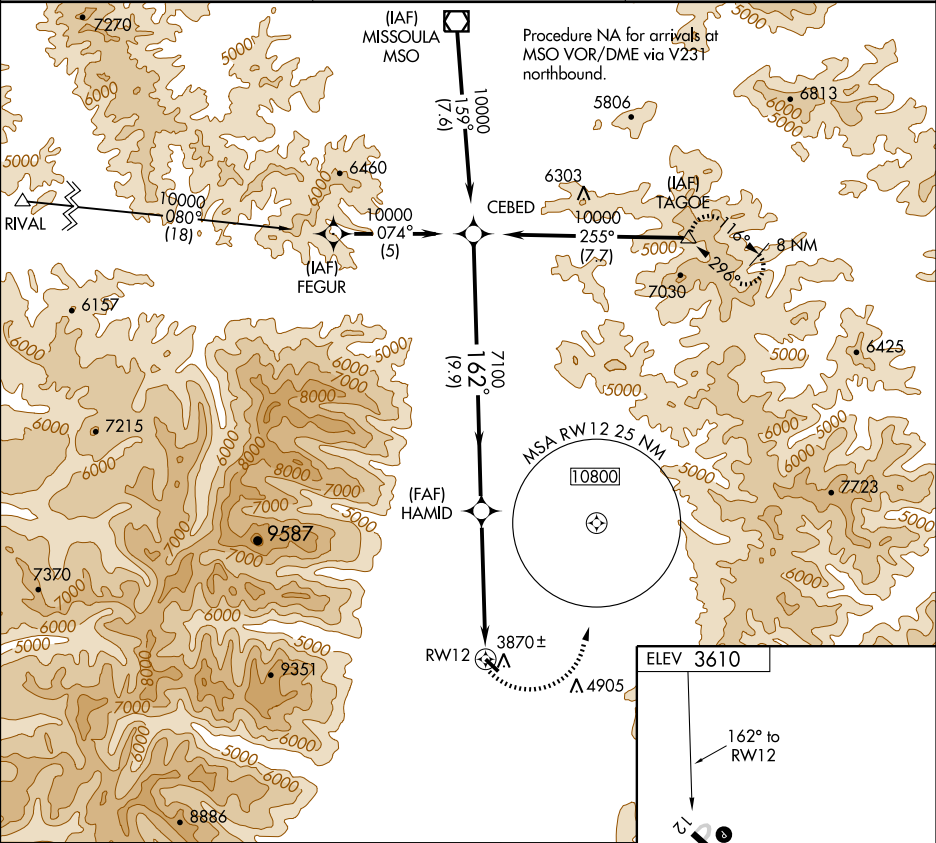
RNAV (GPS)-A
STEVENSVILLE (32S)

APP CRS 162°	Rwy Idg TDZE Apt Elev	N/A N/A 3610
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NA DME/DME RNP-0.3 NA.
Use Missoula Intl altimeter setting.
Circling NA at night to Rwy 30.

MISSED APPROACH: Climbing left turn to 13000 direct
TAGOE WP and hold.

MISSOULA ASOS 126.65	SPOKANE APP CON★ 124.9 298.95	UNICOM 122.8 (CTAF) 0
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LOC I-LOW	APP CRS	Rwy Idg	8399
110.7	010°	TDZE	6644
		Apt Elev	6644

▼

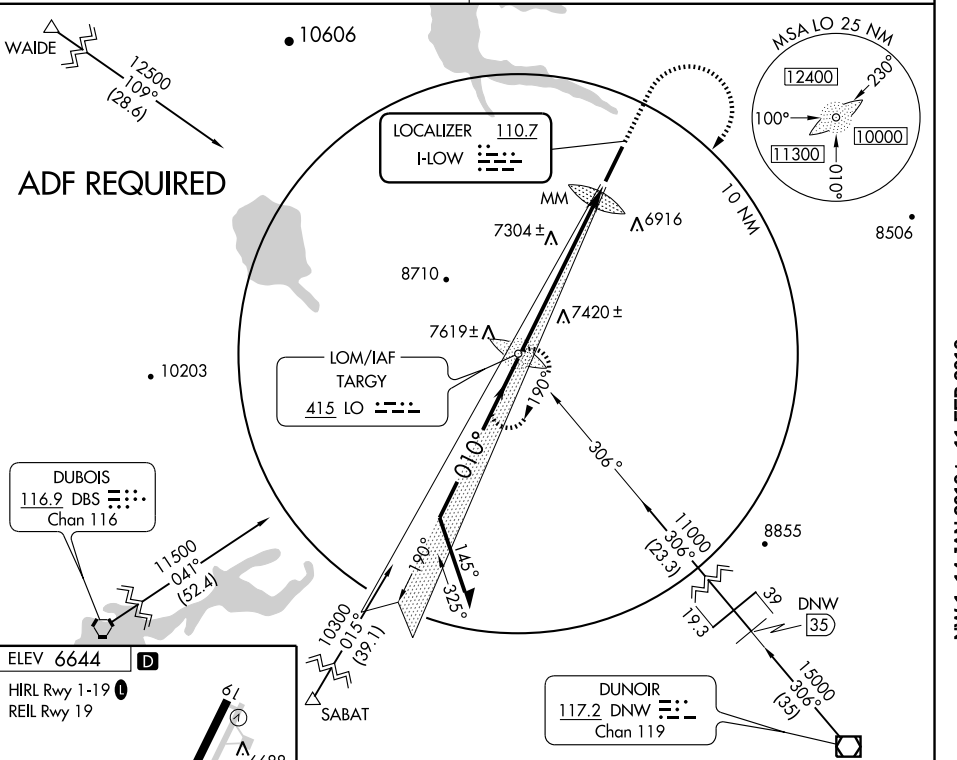
NA

If local altimeter setting not received, procedure not authorized.

MALSR

MISSED APPROACH: Climb to 7600, then climbing right turn to 10000 direct LO LOM and hold.

SALT LAKE CENTER 132.4 338.3	UNICOM 123.0 (CTAF)
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ELEV 6644

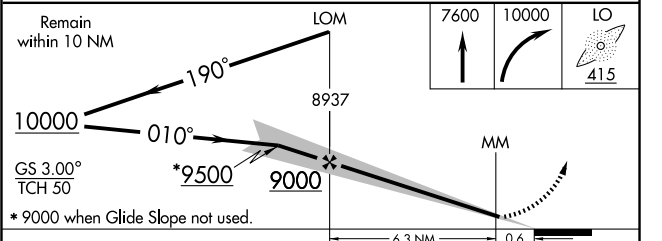
D

HIRL Rwy 1-19

REIL Rwy 19

FAF to MAP 6.9 NM

Knots	60	90	120	150	180
Min:Sec	6:54	4:36	3:27	2:46	2:18



CATEGORY	A	B	C	D
S-ILS 1	6844-½ 200 (200-½)			
S-LOC 1	7720-¾ 1076 (1100-¾)	7720-1 1076 (1100-1)	7720-2½ 1076 (1100-2½)	
	7720-1¼ 1076 (1100-1¼)	7720-1½ 1076 (1100-1½)	7720-3 1076 (1100-3)	
CIRCLING				

LOM LO	APP CRS	Rwy Idg	8399
<u>415</u>	011°	TDZE	6644
		Apt Elev	6644

NDB or GPS RWY 1

WEST YELLOWSTONE/YELLOWSTONE (WYS)

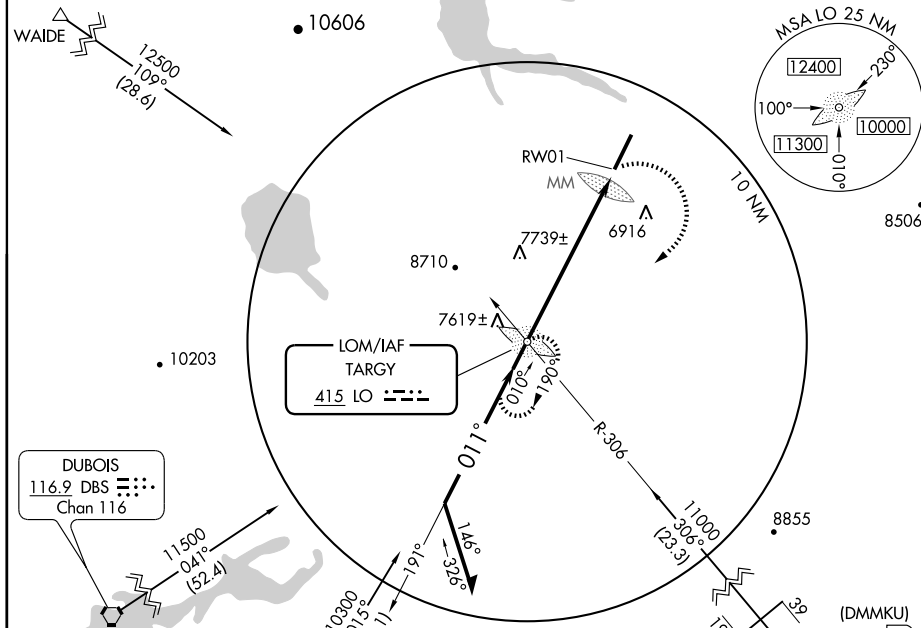
T	If local altimeter setting not received, procedure not authorized.
A NA	Categories A and B, S-1 visibility increased ½ mile for inoperative MALS-R.

MALSR

MISSED APPROACH: Climbing right turn to 10000 direct LO LOM and hold.

SALT LAKE CENTER
132.4 338.3

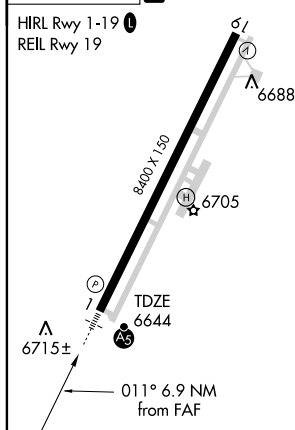
UNICOM
123.0 (CTAF) **L**



NW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 6644	D
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HIRL Rwy 1-19 **L**
REIL Rwy 19



Remain
within 10 NM

LOM

100C

LO

10000

- 011

 3.15°

TCH 50

RW0

4

69

FAF to MAP 6.9 NM

Knots	60	90	120	150	180
Min:Sec	6:54	4:36	3:27	2:46	2:18

CATEGORY	A	B	C	D
S-1	8000-3/4 1356 (1400-3/4)	8000-1 1356 (1400-1)	8000-2 1/2 1356 (1400-2 1/2)	8000-2 3/4 1356 (1400-2 3/4)
CIRCLING	8000-1 1/4 1356 (1400-1 1/4)	8000-1 1/2 1356 (1400-1 1/2)	8000-3 1356 (1400-3)	

NDB OLF 404	APP CRS 286°	Rwy Idg TDZE Apt Elev	5089 1986 1986
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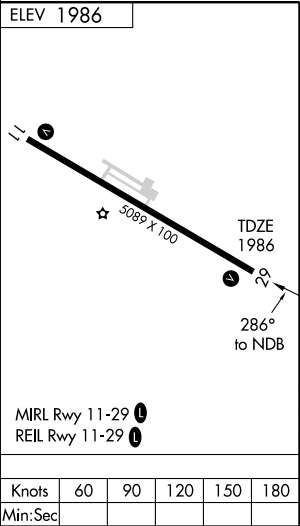
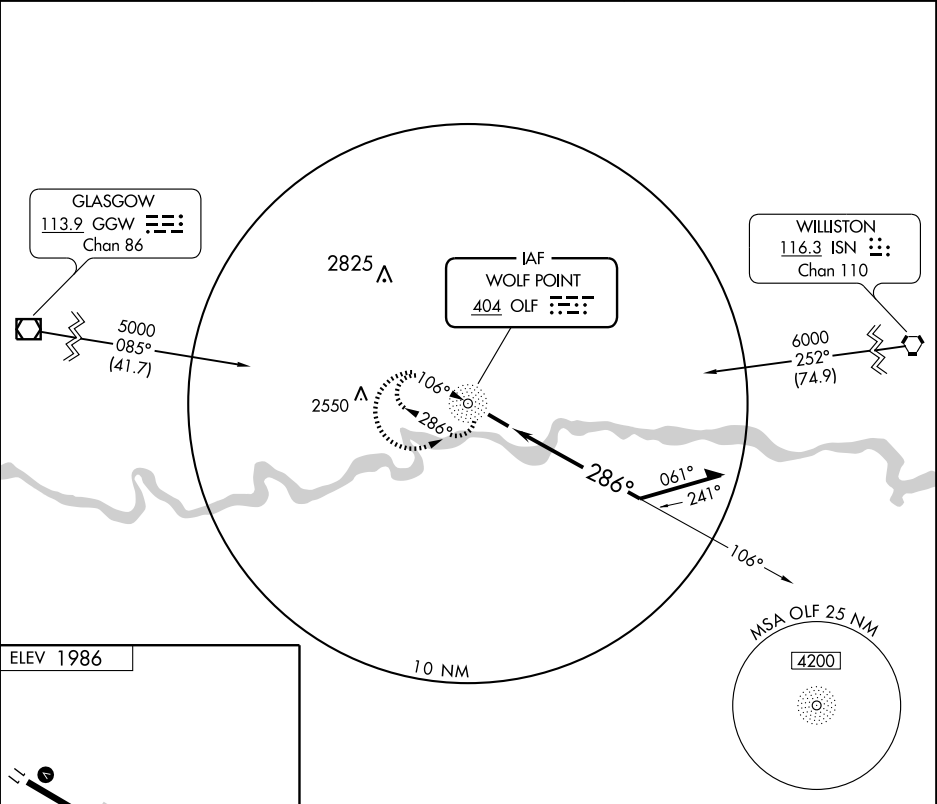
NDB RWY 29

WOLF POINT/ L. M. CLAYTON (OLF¹)

▲ NA If local altimeter setting not received, used Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 160 feet.

MISSED APPROACH: Climbing left turn to 4000 direct OLF NDB continue climb-in-hold to 4000.

ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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4000 OLF 404 NDB Remain within 10 NM 4300 106° 286°				
CATEGORY	A	B	C	D
S-29	2820-1 834 (900-1)	2820-1¼ 834 (900-1 ¼)	2820-2½ 834 (900-2 ½)	2820-2¾ 834 (900-2 ¾)
	2820-1 834 (900-1)	2820-1¼ 834 (900-1 ¼)	2820-2½ 834 (900-2 ½)	2820-2¾ 834 (900-2 ¾)
CIRCLING	2820-1 834 (900-1)	2820-1¼ 834 (900-1 ¼)	2820-2½ 834 (900-2 ½)	2820-2¾ 834 (900-2 ¾)
	2820-1 834 (900-1)	2820-1¼ 834 (900-1 ¼)	2820-2½ 834 (900-2 ½)	2820-2¾ 834 (900-2 ¾)

APP CRS	Rwy Idg	5089
109°	TDZE	1986
	Apt Elev	1986

RNAV (GPS) RWY 11

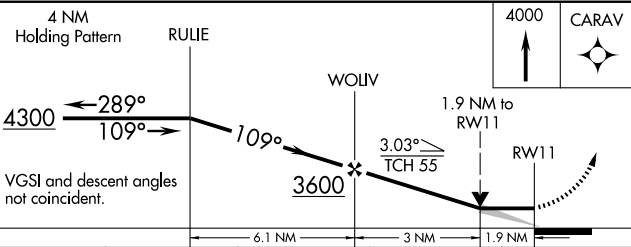
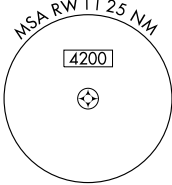
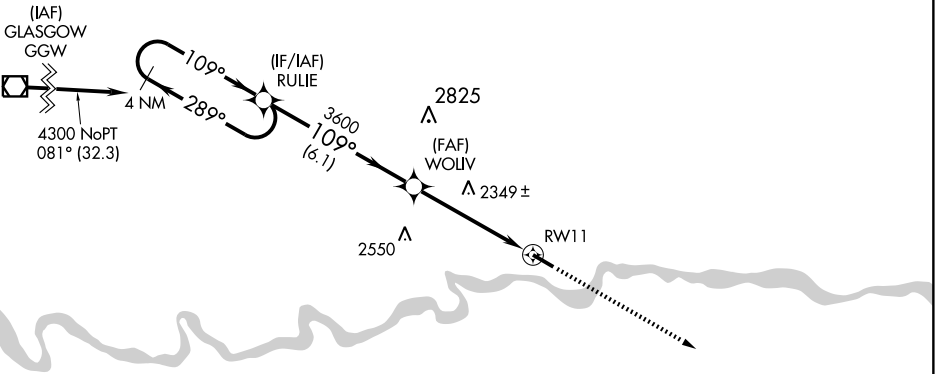
WOLF POINT/ L. M. CLAYTON (OLF)

⚠ DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 140 feet.
VDP NA when using Wokal Field/Glasgow Intl altimeter setting.
Straight-in minimums NA at night.

MISSED APPROACH: Climb to 4000 direct CARAV and hold.

ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 1
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Procedure NA for arrival at GGW VOR/DME via V430 westbound.



ELEV 1986

109° to RW11

TDZE 1986

5089 X 100

29

MIRL Rwy 11-29 **1**

REIL Rwy 11-29 **1**

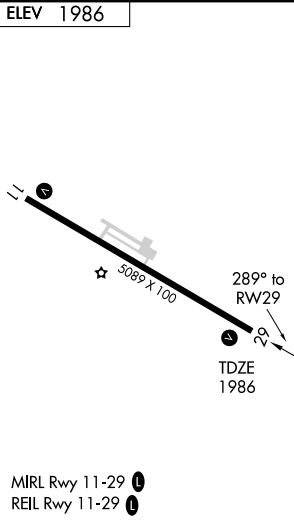
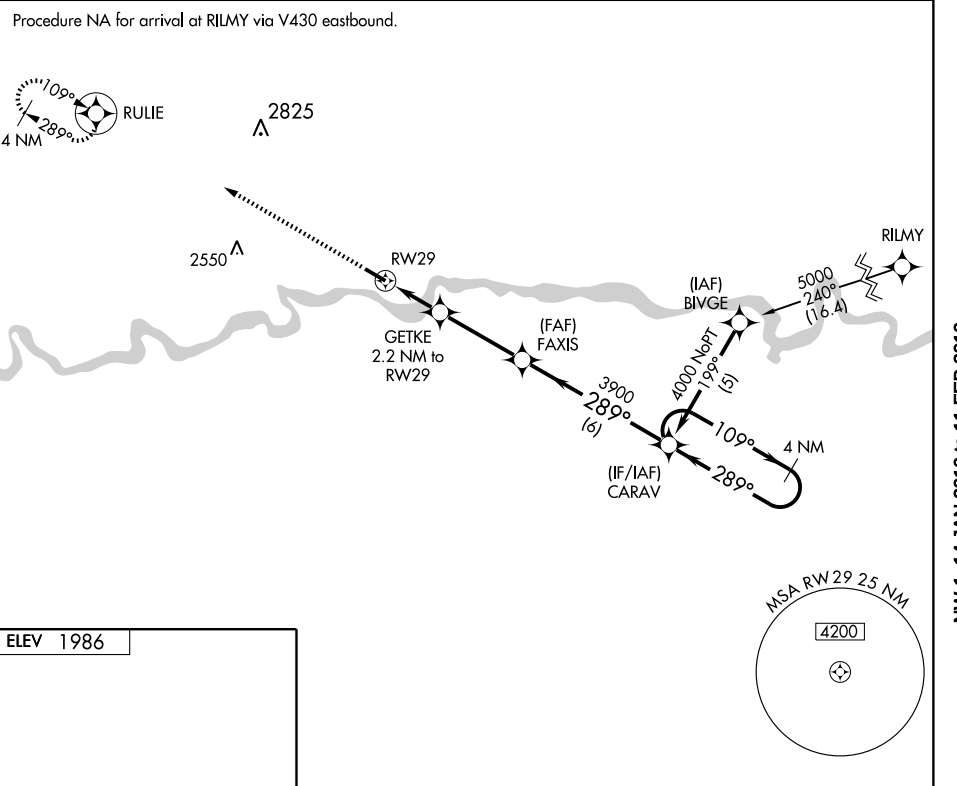
CATEGORY	A	B	C	D
LNAV MDA	2600-1 614 (700-1)		2600-1¾ 614 (700-1¾)	2600-2 614 (700-2)
CIRCLING	2600-1 614 (700-1)		2600-1¾ 614 (700-1¾)	2600-2 614 (700-2)

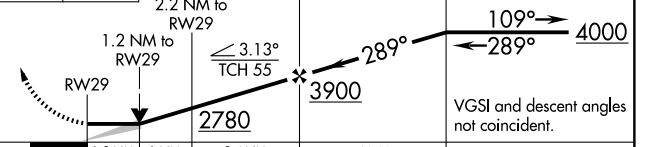
▲

DME/DME RNP- 0.3 NA.
If local altimeter setting not received, use Wokal Field/Glasgow Intl
altimeter setting and increase all MDAs 160 feet.
VDP NA when using Wokal Field/Glasgow Intl altimeter setting.

MISSED APPROACH: Climb to 4300 direct RULIE
and hold.

ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF)
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4300	RULIE		4 NM Holding Pattern	
				
				
CATEGORY	A	B	C	D
LNAV MDA	2380-1 394 (400-1)			2380-1¼ 394 (400-1¼)
CIRCLING	2540-1	554 (600-1)	2540-1½ 554 (600-1½)	2580-2 594 (600-2)

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

¹NA when local weather not available.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Category C, 800-2¾; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

¹Category D, 800-2¾.

²NA when local weather not available.

³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

¹Categories A,B, 1100-2; Categories C,D,
1100-3.

²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

¹NA when local weather not available.

²Category D, 900-2¾.

³Categories A,B, 1900-2; Categories C,D,
1900-3.

⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¾.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

¹Category D, 800-2¾.

²Categories A,B,C,D, 800-2¾.

³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L¹
RNAV (GPS) Y Rwy 10R²
RNAV (GPS) Y Rwy 28L²
VOR/DME or TACAN Rwy 10L¹
VOR/DME or TACAN Rwy 28L¹

¹Category E, 900-3.

²Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¾; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL .. RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹

NA when local weather not available.

¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY RNAV (GPS) Rwy 31¹
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2½.

²Category C, 800-2¼; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI VOR-A
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL NDB Rwy 10¹
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI VOR Rwy 30
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY ILS Y Rwy 15¹
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL ILS or LOC Rwy 3
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2¼; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2¼; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD ILS or LOC Rwy 27¹
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL RNAV (GPS) Rwy 22¹
VOR or GPS-A²

¹Category C, 800-2¼; Category D, 200-2¼.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD ILS or LOC/DME Rwy 5
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI VOR-A
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK RNAV (GPS) Rwy 34
NA when local weather not available.

DILLON, MT

DILLON VOR or GPS-A,1500-3
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY VOR Rwy 29
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND RNAV (GPS)-A
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD RNAV (GPS) Rwy 25¹
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2¼.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI RNAV (GPS) Rwy 3¹
RNAV (GPS) Rwy 21²
VOR/DME Rwy 3¹
VOR Rwy 21¹

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2¼; Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD ILS or LOC/DME Z Rwy 16R¹
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L^{1,2}
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2¼;
Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD ILS or LOC/DME Rwy 23
Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) ILS or LOC/DME Rwy 16R
NA when control tower closed.
NA when local weather not available.

FORT BENTON, MT

FORT BENTON RNAV (GPS) Rwy 23
NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY ILS or LOC Rwy 34^{1,2}
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2¼;
Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¼; Category D,
1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¼; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL VOR Rwy 12
Categories A,B, 900-2; Categories C,D, 900-3.
VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY NDB or GPS Rwy 12,900-2¾

GOODING, ID

GOODING MUNI RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA NDB Rwy 15
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL NDB Rwy 34
Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY RNAV (GPS)-A
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL RNAV (GPS) W Rwy 31
Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY VOR Rwy 26
Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL **ILS or LOC Y Rwy 27¹²**
ILS or LOC Z Rwy 27¹²
LOC/DME BC-C¹³
NDB-D¹⁴
RNAV (GPS) Y Rwy 9⁵
RNAV (GPS) Rwy 23⁵
RNAV (GPS) X Rwy 27⁵
RNAV (RNP) Z Rwy 9⁷
RNAV (RNP) Y Rwy 27⁷
RNAV (RNP) Z Rwy 27⁷⁹
VOR-A⁸
VOR/DME-B⁵

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN **RNAV (GPS) Rwy 24¹**
VOR/DME Rwy 24²
VOR Rwy 6¹

¹Category D, 800-2¼.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL **ILS or LOC Rwy 20¹**
LOC BC Rwy 2²
RNAV (GPS) Rwy 20³
VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY

JACKSON HOLE **RNAV (GPS) X Rwy 1¹**
RNAV (GPS) Y Rwy 19¹
RNAV (RNP) Y Rwy 1, 10681200-4
VOR/DME Rwy 1²
VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

NAME ALTERNATE MINIMUMS

JEROME, ID

JEROME COUNTY **RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27¹
VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
OGILVIE FIELD **RNAV (GPS) Y Rwy 9**
Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL **ILS or LOC Rwy 2¹**
RNAV (RNP) Y Rwy 2²
RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KLAMATH FALLS, OR

KLAMATH FALLS **ILS or LOC Rwy 32¹**
RNAV (GPS) Rwy 14²
VOR/DME or TACAN Rwy 14³
VOR/DME or TACAN Rwy 32⁴
VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY **VOR/DME-A**
Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2¼.

LEWISTON, ID

LEWISTON-NEZ PERCE
COUNTY **ILS Rwy 26¹²**
RNAV (GPS) Rwy 8³
RNAV (GPS) Rwy 12³
RNAV (GPS) Rwy 26³
VOR Rwy 8⁴
VOR Rwy 26³

¹ILS, Category D, 800-2¼.

²NA when control tower closed.

³Category D, 800-2¼.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI **RNAV (GPS) Rwy 7**
VOR Rwy 7

Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

LIVINGSTON, MT

MISSION FIELD **VOR/DME-B¹**
VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²Categories A, B, 2200-2; Categories C,D,
2200-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI **ILS or LOC Rwy 22**
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2¼.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD **ILS or LOC/DME Rwy 14¹²**
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D,
900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D,
2300-3.

⁴Categories A, B, 1100-2; Categories C, D,
1100-3.

⁵Categories A, B, 1400-2; Category C, D
1400-3.

MISSOULA, MT

MISSOULA INTL **ILS Rwy 11¹**
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11², 800-2½
VOR/DME or GPS-A, 2000-3
VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D,
1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... **ILS or LOC Rwy 32R¹**
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

NAME ALTERNATE MINIMUMS

NEWCASTLE, WY

MONDELL FIELD **VOR or GPS Rwy 31**
NA except for operators with approved weather
reporting service.
Categories A,B, 900-2; Categories C,D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL **ILS or LOC Rwy 4¹**
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS, Categories A,B, 800-2; Category C, 900-
2¼, Category D, 1000-3. LOC, Category C,
900-2¼, Category D, 1000-3.

²Category C, 900-2¼; Category D, 1000-3.

³Categories A,B, 1100-2; Categories C,D,
1100-3.

⁴Categories C,D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG **RNAV (GPS) Rwy 7**
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL **ILS or LOC Rwy 17¹²**
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²³
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

³Category D, 800-2¼.

ONTARIO, OR

ONTARIO MUNI **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available.

PASCO, WA

TRI-CITIES **ILS or LOC Rwy 21R¹²**
RNAV (GPS) Rwy 3L
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 21R
RNAV (GPS) Rwy 30
VOR Rwy 21R³
VOR/DME Rwy 30

NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D,
700-2¼. LOC, Category D, 800-2¼.

³Category D, 800-2¼.

²NA when Rawlins FSS closed.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E,
800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾;
Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D,
1000-3.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY **RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

ROCK SPRINGS, WY

ROCK SPRINGS SWEETWATER
COUNTY **VOR-B**
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

MCNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C,
800-2¾; Category D, 800-2½. LOC, Category
C, 800-2¾; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK **VOR/DME or GPS-A**
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½;
Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾;
Category D, 1000-3.

⁵Categories A, B, C, D, 800-2¾.

SHERIDAN, WY

SHERIDAN
COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2¾.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2¾.

²Categories C, D, 800-2½.

SPOKANE, WA

FELTS FIELD **ILS/DME Rwy 21R¹**
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L³

¹Categories A, B, 1000-2; Category C, 1000-
2¾.

²Categories A, B, 1000-2; Category C,
1000-2¾; Category D, 1000-3.

³Categories A, B, 1000-2; Categories C, D,
1000-3

SPOKANE INTL **ILS or LOC Rwy 3¹**
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

¹ILS, Category D, 700-2.

²Category E, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI
DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.
Rwy 34, turn left. All aircraft climb direct CVO VOR/
DME and continue climb in CVO VOR/DME holding
pattern, (E, right turns, 261° inbound) to cross CVO
VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417'
per NM to 9000, or 2800-3 for climb in visual conditions.
Rwy 16, std. w/min. climb of 321' per NM to 10200, or
2800-3 for climb in visual conditions. **Rwy 22**, NA-
obstacles. **Rwy 34**, std. w/min. climb of 369' per NM to
9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing right
turn to 10200 via heading 130° and CPN VOR/DME R-
340 to CPN VOR/DME, continue climb-in-hold to 10200
(north, left turn, 166° inbound), or for climb in visual
conditions, cross Bowman Field Airport at or above 7700
then proceed via CPN R-309 to CPN VOR/DME,
continue climb-in-hold to 10200 (north, left turn, 166°
inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 16, climbing left turn to 10200 via heading 100° and
CPN VOR/DME R-335 to CPN VOR/DME, continue
climb-in-hold to 10200 (north, left turn, 166° inbound), or
for climb in visual conditions, cross Bowman Field
Airport at or above 7700 then proceed via CPN R-309 to
CPN VOR/DME, continue climb-in-hold to 10200 (north,
left turn, 166° inbound).

NOTE: **Rwy 16**, multiple trees beginning 865' from
departure end of runway, 243' left of centerline, up to 70'
AGL/5097' MSL. Rod on hangar 570' from departure
end of runway, 278' left of centerline, 54' AGL/5054'
MSL. Multiple trees beginning 787' from departure end
of runway, 165' right of centerline, up to 70' AGL/5098'
MSL. Multiple transmission lines beginning 4602' from
departure end of runway, 1664' right of centerline, 80'
AGL/5159' MSL. **Rwy 34**, multiple transmission lines
beginning 2242' from departure end of runway, 964' left
of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles.
DEPARTURE PROCEDURE: Use JATTS
DEPARTURE.

**ARLINGTON, WA****ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29,34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8,31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL. Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL. Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17**, NA. **Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8,13**, turn left.

Rwys 26,31,35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8,26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.



BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading 098° to 4600 before turning right.
NOTE: **Rwy 10L**, fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL (GOWEN FIELD)

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, turn left **Rwys 10L, 10R**, turn right. Climb on BOI R-214 within 20 NM to cross BOI VORTAC at or above MEA/MCA for direction of flight.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/ min. climb of 410' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 1**, Climbing right turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.
NOTES: **Rwy 1**, Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:
Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.
DEPARTURE PROCEDURE: Northbound aircraft:
Rwy 13, turn left. **Rwy 31**, climb straight ahead.
All aircraft proceed via SHR R-139 to SHR VORTAC. Southbound aircraft: **Rwy 13**, climb straight ahead. **Rwy 31**, turn right. **All aircraft** proceed via CZI R-319 to CZI VOR/DME.

BURLEY, ID

BURLEY MUNI

TAKE-OFF MINIMUMS: **All runways**, cross departure end of runway at or above 35' AGL.
DEPARTURE PROCEDURE: **All runways**, climb direct BURLEY (BYI) VOR/DME. Continue climb on R-305 within 10 miles to cross BYI VOR/DME: R-024 CW R-054 at or above 5500; R-055 CW R-240 at or above 8000; R-241 CW R-023 at or above 5900.
NOTE: **Rwy 2**, bridge 252' from departure end of runway, 513' left of centerline, 110' AGL/4195' MSL. Stack 2205' from departure end of runway, 857' right of centerline, 79' AGL/4236' MSL. Elevator 4092' from departure end of runway, 297' right of centerline, 133' AGL/4283' MSL. **Rwy 20**, antenna 523' from departure end of runway, 338' right of centerline, 43' AGL/4217' MSL. **Rwy 24**, tree 630' from departure end of runway, 521' right of centerline, 41' AGL/4215' MSL. Grain elevator 3106' from departure end of runway, 163' left of centerline, 137' AGL/4317' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)
ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.
DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.
All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.
NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR**BURNS MUNI**

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...

...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT**BERT MOONEY**

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL. **Rwy 29**, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID**CALDWELL INDUSTRIAL**

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY**CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)**

DEPARTURE PROCEDURE: **Rwys 3, 8, 12**, turn left.

All other runways, turn right. All aircraft climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA**CHEHALIS-CENTRALIA**

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY**CHEYENNE RGNL/JERRY OLSON FIELD**

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY**YELLOWSTONE RGNL**

TAKE-OFF MINIMUMS: **Rwy 4**, 1500-2 or std. with a min. climb of 250' per NM to 6800. **Rwy 22**, 1600-2 or std. with a min. climb of 340' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 4, 22**, turn left.

All aircraft climb direct COD VOR/DME. Climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above: COD R-350 CWR-170, 6000; or R-171 CWR-R-349, 11800.

COEUR D'ALENE, ID**COEUR D'ALENE-PAPPY BOYINGTON FLD**

TAKE-OFF MINIMUMS: **Rwy 5**, CAT A, B, 1700-2 or std. with a min. climb of 230' per NM to 4000. CAT C, D, 2600-2 or std. with a min. climb of 320' per NM to 5400.

DEPARTURE PROCEDURE: **Rwys 1, 5**, turn left, climb via COE R-005 to 5400, reverse course, continue climb direct COE VOR. **Rwy 19**, turn right. **Rwy 23**, turn left, climb via COE R-232 to 5000, reverse course, continue climb direct COE VOR.

COLSTRIP, MT**COLSTRIP (M46)****AMDT 2 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV) DEPARTURE. **Rwy 24**, use CONUK (RNAV) DEPARTURE.

CONRAD, MT**CONRAD**

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR**CORVALLIS MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY**NORTH BIG HORN COUNTY**

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA**DEER PARK**

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 360' per NM to 5600.

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading; **Rwy 22**, climbing left turn to heading 130°; **Rwys 4, 34**, climbing right turn to heading 210°; **All aircraft** intercept and continue climb via the 170° bearing from DPY NDB to intercept GEG R-006 to GEG VORTAC.

DILLON, MT**DILLON**

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwesterly bound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY**CONVERSE COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CWR R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CWR R-199 9600; R-200 CWR R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID**DRIGGS-REED MEMORIAL (DIJ)****AMDT 2 08157 (FAA)**

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA**ORCAS ISLAND (ORS)****AMDT 1 09351 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENSBURG, WA**BOWERS FIELD**

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800. DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA**EPHRATA MUNI (EPH)****AMDT 3 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles. DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn...**Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.

Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER, 419' left of centerline, 15' AGL/4380' MSL.

**GOODING, ID**

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMD T 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA

..... **Rwy 15**, 300-1***Rwy 33**, 300-1**

*Or standard with minimum climb of 430/NM to 500.

**Or standard with minimum climb of 380/NM to 600.

Rwy 15 climb runway heading to 700 then climbing left turn direct GR LOM. **Rwy 33** climb runway heading direct GR LOM. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GR LOM climb on course. All others continue climb in GR holding pattern (Hold NW, RT, 147° inbound) to cross GR LOM at or above: 071° CW 134° bearing from GR LOM, 8500'; 261° CW 329° bearing from GR LOM, 1500.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/ min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°.

All aircraft continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/ min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.



HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1¾ or std. w/ min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence... **Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence... **Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence... **Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)

AMDT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.

DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading. **All aircraft** climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2¾ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)

AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1¼ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 1200-2 or std. with a min. climb of 320' per NM to 1300.

DEPARTURE PROCEDURE: Departure procedure limited to CAT A,B aircraft. **Rwy 30**, climb straight ahead to 1500 then climbing right turn direct LSO NDB. Continue climb in holding pattern (N, right turns, 171° inbound) to cross LSO NDB at or above 3000 direct BTG VORTAC or MEA for route of flight.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4,10,22,28**, NA- Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/ DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/ DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400.

Rwy 32, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14,25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800.

Rwy 30, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12,16**, climbing left turn direct LGD NDB, thence; **Rwys 30,34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKVR-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKVR-148 then via LKVR-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12,21**, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.
DEPARTURE PROCEDURE: **Rwy 22**, turn left.
All aircraft climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left
direct MQG VOR/DME. Continue climb in holding
pattern (W, left turns, 066° inbound) to cross MQG
VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a
min. climb of 280' per NM to 6900. **Rwy 7, 12, 900-2** or
std. with a min. climb of 220' per NM to 6200.
DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.
Rwys 7, 12, 20, turn right. **Rwy 25**, climb runway
heading. **All aircraft** climb direct LWT VORTAC.
Continue climb in holding pattern (W, right turns, 094°
inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of
280' per NM to 7600, or 1600-2 ½ for climb in visual
conditions. **Rwy 8**, std. with min. climb of 490' per NM to
4200, or 1600-2 ½ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in
visual conditions: cross Lexington Airport at or above
3600.
NOTES: **Rwy 8**, trees 1.42 NM from departure end of
runway, 2386' left of centerline, 100' AGL/2159' MSL.
Trees 1.48 NM from departure end of runway, 2755' left
of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.
Rwy 15, use EYSE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-
Environmental.
DEPARTURE PROCEDURE: **Rwys 4, 22**, use
LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

ORIG-A 09043 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of
298' per NM to 3900 or 1100-2 ½ for climb in visual
conditions. **Rwy 22**, std. w/ a min. climb of 281' per NM
to 3900 or 1100-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left
turn heading 210° and DSD R-348 to DSD VORTAC to
7000 before proceeding on course. **Rwy 16**, climbing
right turn heading 210° and DSD R-348 to DSD
VORTAC to 7000 before proceeding on course, or...
Rwy 22, climb heading 216° and DSD R-348 to DSD
VORTAC to 7000 before proceeding on course, or...
... for climb in visual conditions: cross Madras Muni at
or above 3400 MSL, then direct DSD VORTAC to 7000
before proceeding on course.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.
DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL
DEPARTURE.

MC CHORD AFB (KTCM)

TACOMA, WA 09127

DEPARTURE PROCEDURE: **Rwy 16**, Track heading
160°, turn left to intercept SEA VORTAC R-168 (V495)
to SEA 168/37.1 DME (ALDER). Cross ALDER at or
above 4000. After ALDER, maintain MEA/MOCA for
route of flight. **Rwy 34**, Track heading 340°, then turn
right to intercept SEA VORTAC R-168 (V495) to SEA
R-168/37.1 DME (ALDER). Cross ALDER at or above
4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143'
AGL/454' MSL, 4892' from DER, 1353' left of centerline.
Grove of trees 102' AGL/419' MSL, 2395' from DER,
1028' right of centerline. Trees 136' AGL/447' MSL,
2867' from DER, 1261' left of centerline. Trees 120'
AGL/430' MSL, 2594' from DER, 1113' left of centerline.
Trees 85' AGL/394' MSL, 2310' from DER, 957' left of
centerline. Trees 83' AGL/392' MSL, 2006' from DER,
959' left of centerline. Trees 87' AGL/389' MSL, 1758'
from DER, 971' left of centerline. **Rwy 34**, Tree 106'
AGL/348' MSL, 2307' from DER, 1038' left of centerline.
Tree 121' AGL/370' MSL, 3190' from DER, 526' right of
centerline. Aircraft 65' AGL/317' MSL, 186' from DER,
407' left of centerline. Tree 64' AGL/343' MSL, 2260'
from DER, 1036' left of centerline. Building 40' AGL/321'
MSL, 1668' from DER, 810' left of centerline.

**MC MINNVILLE, OR**

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1½ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windscock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270'/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11, 70'** AGL tree, 1225' from departure end of runway, 90' right of centerline.



NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400.
Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. **All aircraft** climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/ 4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/ 4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1. DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL. **Rwy 29**, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL. **Rwy 28R**, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. **All aircraft** climb via BTGR-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. **All aircraft** climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 28, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.

DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climbing heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thenceClimb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/ min. climb of 310' per NM to 700. **Rwy 19**, std. w/ min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/ min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence...**Rwy 8**, climbing right turn direct PSC VOR/DME, thence...**Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence...**Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence...

...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL

DEPARTURE PROCEDURE: Aircraft departing RIW R-280 CW R-170 climb on course. All others climb to 6600, then continue climb direct RIW VOR/DME to cross RIW VOR/DME at or above 7500 before proceeding on course.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY

DEPARTURE PROCEDURE: Climb direct OCS VORTAC. Aircraft departing OCS R-205 CW R-170 climb on course. All others climb in the OCS holding pattern (E, right turns, 260° inbound) to cross OCS VORTAC at or above 7300.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL. **Rwy 13R**, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL.

Rwy 11, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
...1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
...climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD

TAKE-OFF MINIMUMS: **Rwys 3L, 3R**, std. w/ min. climb of 400' per NM to 3600, or 1600-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 360' per NM to 3100, or 1600-3 for climb in visual conditions. **Rwy 21R**, std. w/ min climb of 375' per NM to 3100, or 1600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course. **Rwys 21L, 21R**, climb to 2800, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course.

NOTE: **Rwy 3L**, multiple trees beginning 5000' from departure end of runway, 530' left of centerline, up to 104' AGL/2513' MSL. Tree 1854' from departure end of runway, 773' right of centerline, 54' AGL/2030' MSL, tree 2365' from departure end of runway, 798' right of centerline, 61' AGL/2037' MSL. **Rwy 3R**, multiple trees beginning 5016' from departure end of runway, 1033' left of centerline, up to 104' AGL/2529' MSL, pole 2.5 NM from departure end of runway, 2059' left of centerline, 62' AGL/2454' MSL, hangar 92' from departure end of runway, 341' right of centerline, 5' AGL/1967' MSL, NDB 925' from departure end of runway, 270' right of centerline, 25' AGL/1987' MSL, multiple trees beginning 1870' from departure end of runway, 271' right of centerline, up to 128' AGL/3560' MSL. **Rwy 21L**, pole 316' from departure end of runway, 302' left of centerline, 33' AGL/1992' MSL, tree 926' from departure end of runway, 362' left of centerline, 50' AGL/2006' MSL, building 1057' from departure end of runway, 158' left of centerline, 19' AGL/1975' MSL, building 1061' from departure end of runway, 110' left of centerline, 19' AGL/1975' MSL. Elevator 4080' from departure end of runway, 598' left of centerline, 134' AGL/2080' MSL. **Rwy 21R**, hangar 204' from departure end of runway, 496' left of centerline, 13' AGL/1969' MSL, pole 659' from departure end of runway, 404' left of centerline, 26' AGL/1979' MSL, building, 946' from departure end of runway, 230' left of centerline, 24' AGL/1973' MSL, pole 1399' from departure end of runway, 2' left of centerline, 33' AGL/1982' MSL, elevator 2655' from departure end of runway, 1097' left of centerline, 134' AGL/2080' MSL, tree 189' from departure end of runway, 511' right of centerline, 46' AGL/1979' MSL, tree 480' from departure end of runway, 404' right of centerline, 43' AGL/1979' MSL, pole 1252' from departure end of runway, 55' right of centerline, 29' AGL/1975' MSL, pole 1427' from departure end of runway, 13' right of centerline, 33' AGL/1982' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSO R-163. **Rwy 30**, do not exceed 210 knots until established on MSO R-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSO R-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500. DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26**, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ... for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900. **Rwys 25, 30**, CAT A, B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C, D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-200 7400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEEZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JEEZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL. **Rwy 26**, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25:** Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25:** Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL**

RWYS: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7:** Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28,** NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

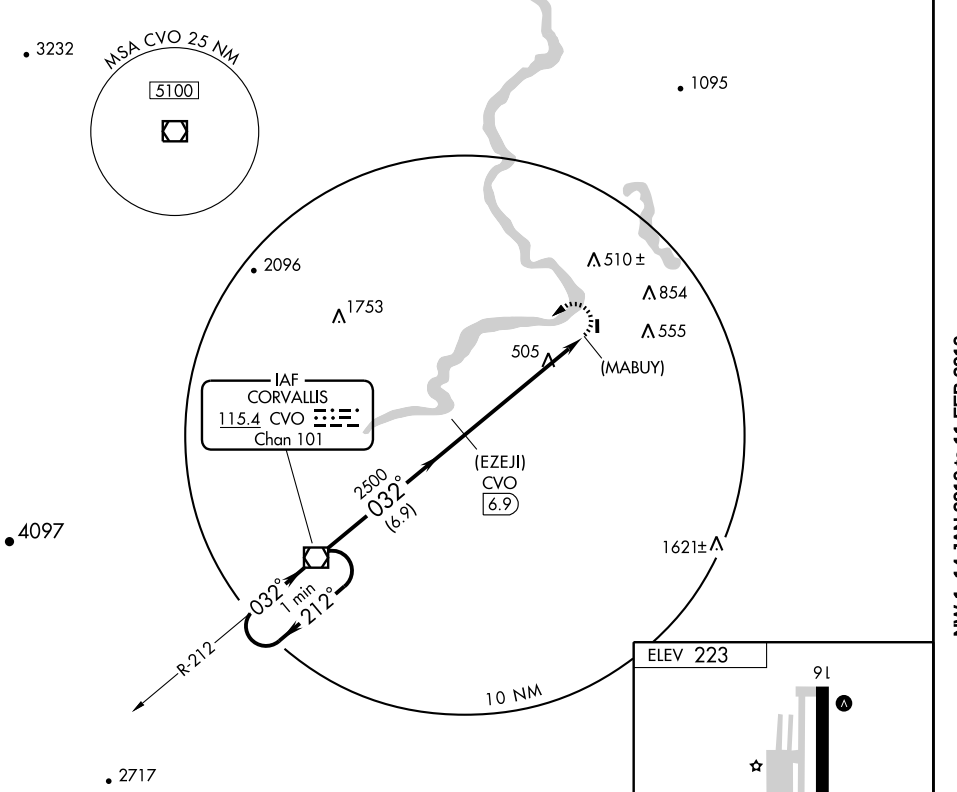
TAKE-OFF MINIMUMS: **Rwy 4,** NA. **Rwy 9,** 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27,** 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4,** NA. **Rwys 9, 22, 27,** Use ZILLA DEPARTURE PROCEDURE.

Use Corvallis altimeter setting.

MISSED APPROACH: Climbing left turn to 3500 via CVO R-032 to CVO VOR/DME and hold.

CORVALLIS AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 122.8 (CTAF) 0
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NoPT for arrivals on CVO VOR/DME airways radials 154 clockwise to 177.

One Minute Holding Pattern

CATEGORY	A	B	C	D
CIRCLING	840-1	617 (700-1)	NA	

3500

CVO

115.4

3500

CVO R-032

115.4

2500

(MABUY) CVO

12.3

REIL Rwy 34

MIRL Rwy 16-34

91

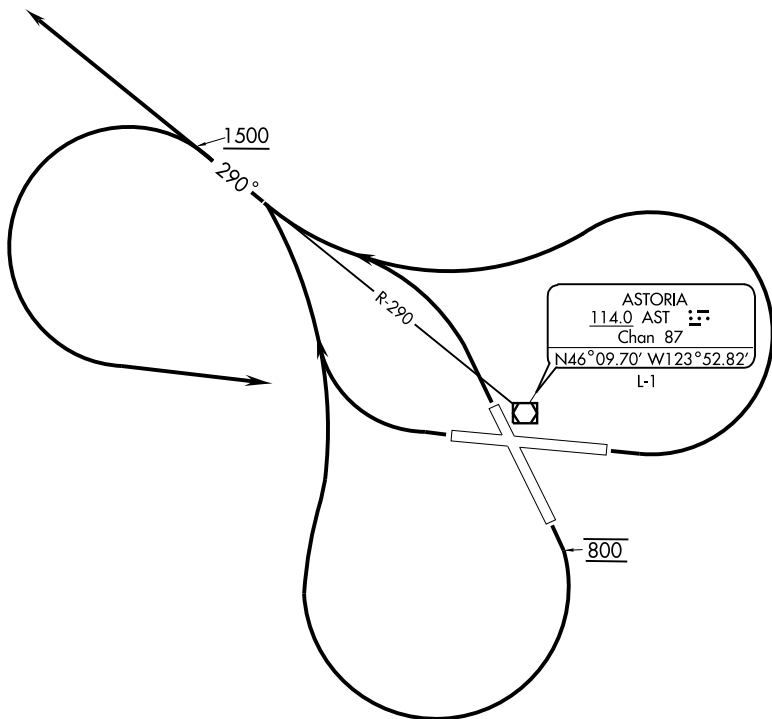
3003 x 75

34

Knots	60	90	120	150	180
Min:Sec					

NW-1, 14 JAN 2010 to 11 FEB 2010

SEATTLE CENTER
124.2 317.6
McMINNVILLE RADIO
122.3



NOTE: TAKE-OFF MINIMUMS: Rwy 8, 800-3 or standard with minimum climb of 320' per NM to 900'. Rwy 13, 700-2 or standard with minimum climb of 350' per NM to 800'. Rwy 26,31, Standard.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8,31: Turn left. Thence....

TAKE-OFF RUNWAY 26: Turn right. Thence....

TAKE-OFF RUNWAY 13: Climb runway heading to 800 then climbing right turn. Thence....

.... Aircraft departing northwest bound climb via AST R-290 on course. All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

LOC I-AST	APP CRS	Rwy Idg TDZE	N/A
109.5	257°	Apt Elev	11

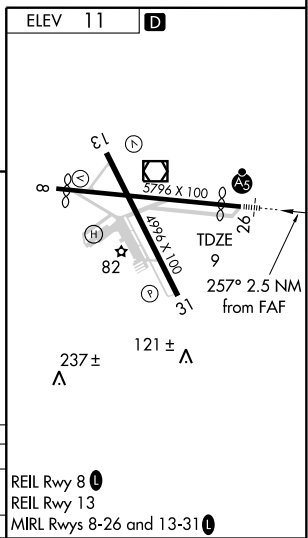
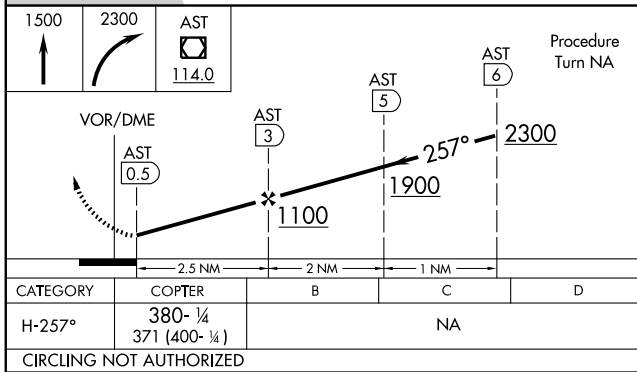
COPTER LOC/DME 257°

ASTORIA RGNL (AST)

V DME from AST VOR/DME. Simultaneous reception of I-AST and AST VOR/DME required.
NA Increase visibility to ½ mile for inoperative MALSRL.

MISSED APPROACH: Climb to 1500 then climbing right turn to 2300 direct AST VOR/DME and hold.

ASOS	SEATTLE CENTER	MC MINNVILLE RADIO	UNICOM
135.375	124.2 317.6	122.3	122.8 (CTAF) 0



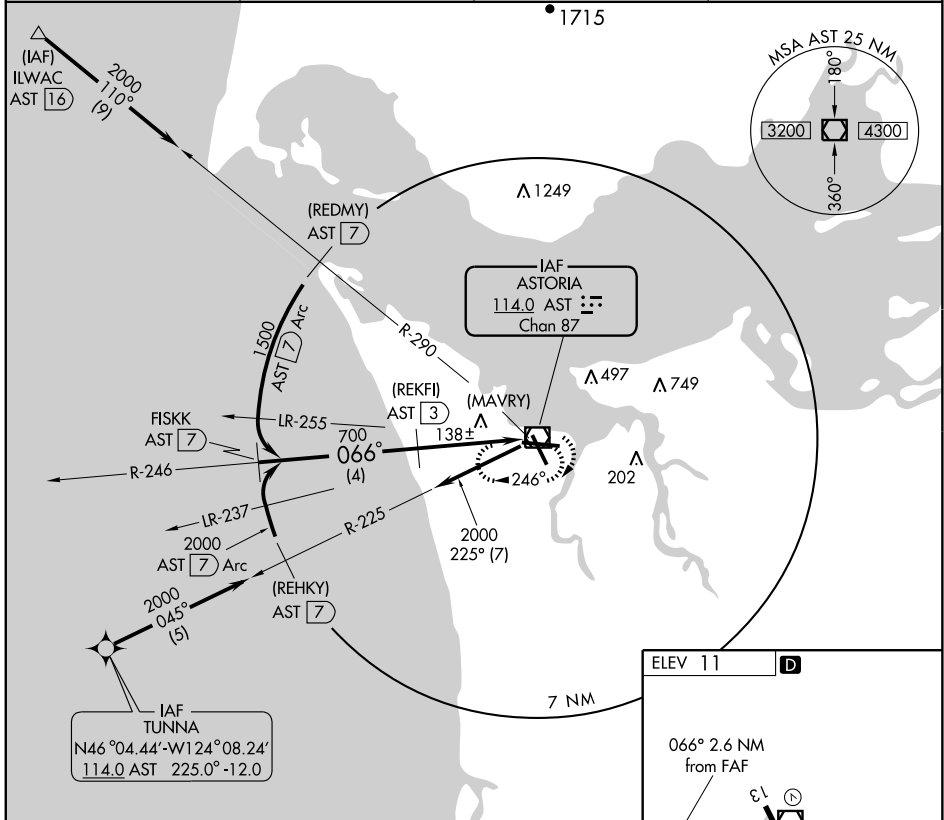
VOR/DME AST 114.0 Chan 87	APP CRS 066°	Rwy Idg TDZE Apt Elev 11	N/A N/A 11
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COPTER VOR/DME or GPS 066°

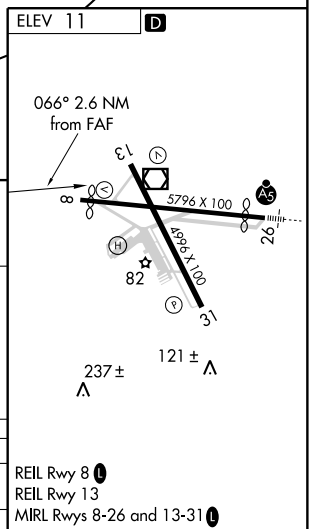
ASTORIA RGNL (AST)

NA	MISSED APPROACH: Climbing right turn to 2000 in AST VOR/DME holding pattern.
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ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF) 0
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FISKK AST 7 1500 066° (REKFI) AST 3 700 VOR/DME (MAVRY) AST 0.2 0.2 0.2 2000 AST 114.0 4 NM 2.6 NM <table border="1"><tr><td>CATEGORY</td><td>COPTER</td><td>B</td><td>C</td><td>D</td></tr><tr><td>H-066°</td><td>500- ½ 489 (500- ½)</td><td colspan="3">NA</td></tr></table> CIRCLING NOT AUTHORIZED					CATEGORY	COPTER	B	C	D	H-066°	500- ½ 489 (500- ½)	NA		
CATEGORY	COPTER	B	C	D										
H-066°	500- ½ 489 (500- ½)	NA												



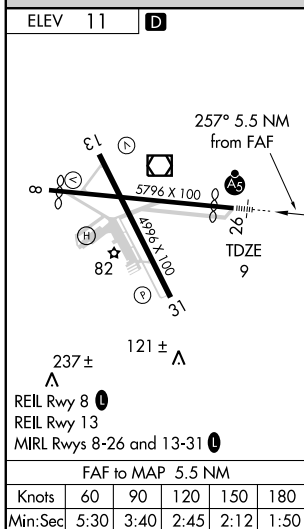
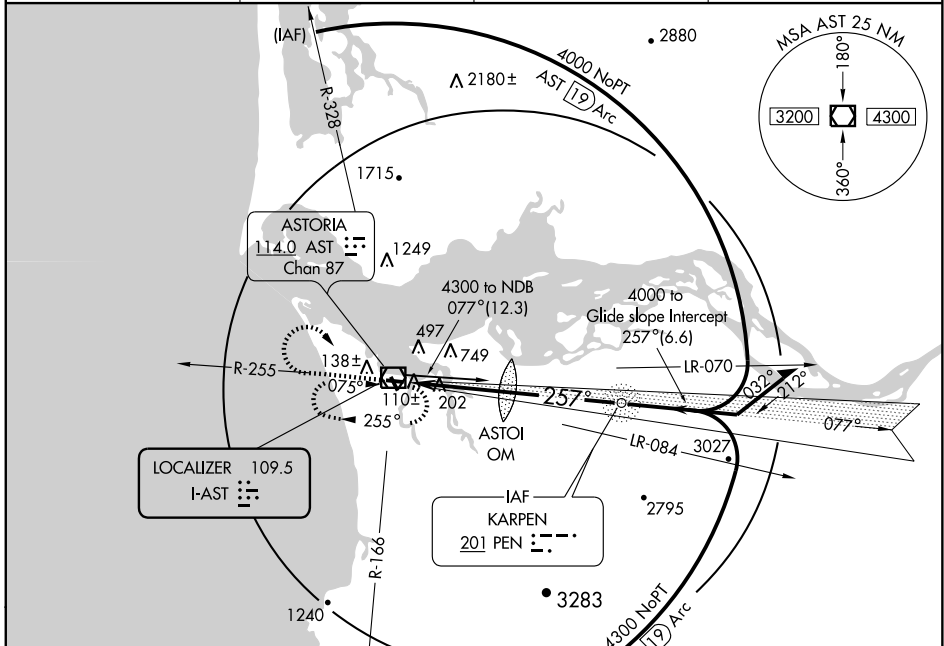
REIL Rwy 8 0
REIL Rwy 13
MIRL Rwys 8-26 and 13-31 0

LOC I-AST 109.5	APP CRS 257°	Rwy Idg TDZE Apt Elev	4782 9 11
---------------------------	------------------------	-----------------------------	--------------------------------------

ILS RWY 26 ASTORIA RGNL (AST)

T A NA	Circling requires descent on GS to MDA.	MALSR 	MISSED APPROACH: Climb to 1500 then climbing right turn to 2900 direct AST VOR/DME and hold.
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ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF)
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WAAS
CH 97711
W26A

APP CRS
257°

Rwy Idg
TDZE
Apt Elev

4782
14
15

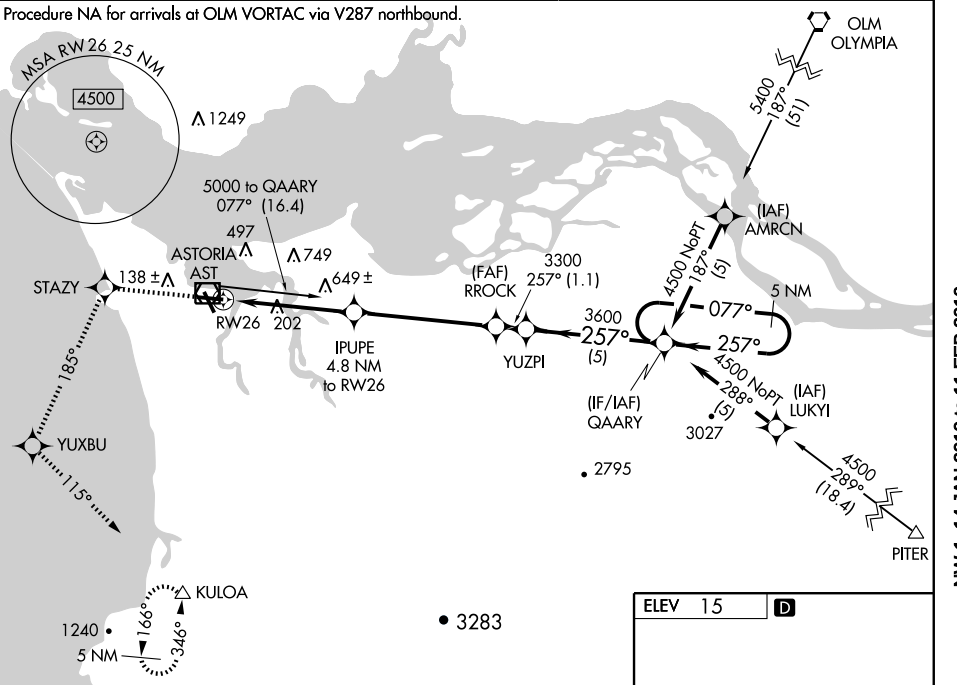
▼
▲

Inoperative table does not apply. DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.
When local altimeter setting not received, use Kelso altimeter setting and increase all DA 95 feet and all MDA 100 feet; increase LPV all Cats, LNAV Cats C and D and circling Cats C and D visibility ¼ mile.

MALSR
A5

MISSED APPROACH: Climb to 5000 direct STAZY and via track 185° to YUXBU and via track 115° to KULOA and hold.

ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF) 1
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5000
↑

STAZY
185° trk

YUXBU
115° trk

KULOA
△

QAARY
5 NM Holding Pattern

*LNAV only

RW26

IPUPE 4.8 NM to RW26

RROCK

YUZPI

257°

077°

4500

3600

3300

*1600

4.8 NM

5.1 NM

1.1

5 NM

GS 3.00°
TCH 56

CATEGORY	A	B	C	D
LPV DA	300-1	286 (300-1)		
LNAV MDA	900-1¼	886 (900-1¼)	900-2¾ 886 (900-2¾)	900-3 886 (900-3)
CIRCLING	900-1¼	885 (900-1¼)	900-2¾ 885 (900-2¾)	900-3 885 (900-3)

ELEV 15
D

2493

TDZE 14

5796 X 100

4996 X 100

257° to RW26

237±
Λ

121±
Λ

REIL Rwy 8 1
REIL Rwy 13
MIRL Rwy 8-26 and 13-31 1

AL-24 (FAA)

VOR/DME AST 114.0 Chan 87	APP CRS 066°	Rwy Idg 4896 TDZE 14 Apt Elev 15
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VOR RWY 8
ASTORIA RGNL (AST)

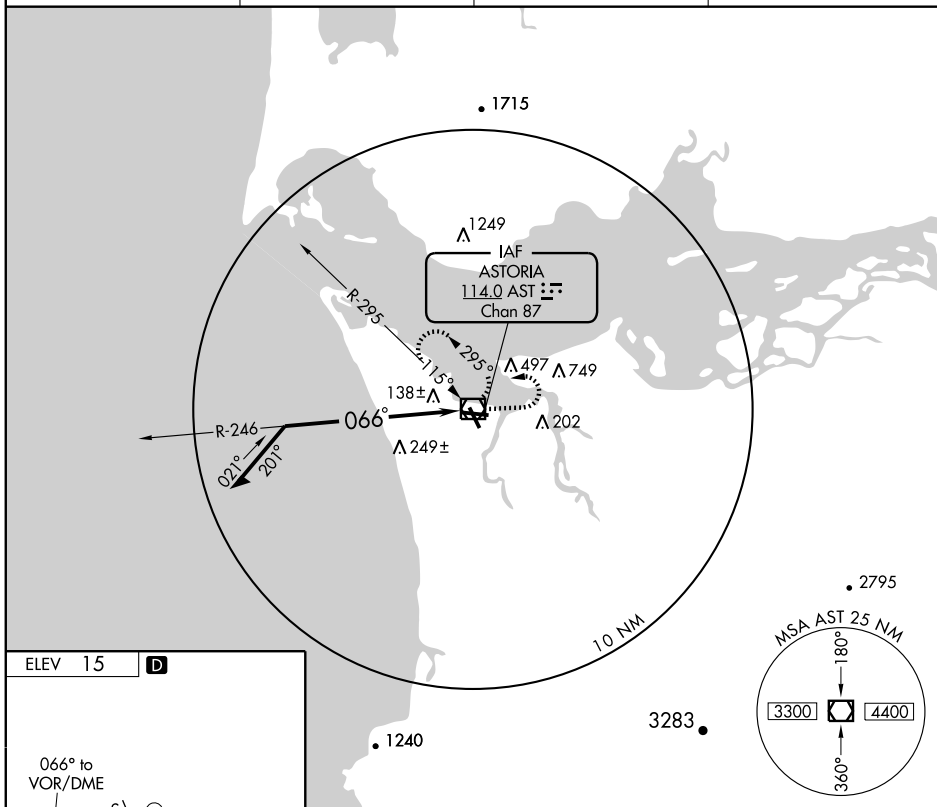


MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 AST VOR/DME holding pattern.

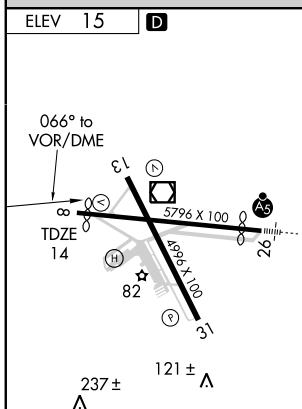
ASOS
135.375

SEATTLE CENTER
124.2 317.6

MC MINNVILLE RADIO
122.3

UN|COM
122.8 (CTAF) **L**

NW-1. 14 JAN 2010 to 11 FEB 2010



Remain
within 10 NM

VOR/DME

1000

3000

AST

114.0

1800

$$\begin{array}{l} \nearrow 246 \\ \searrow 0 \end{array}$$

CATEGORY	A	B	C	D
S-8	660-1 646 (700-1)		660-1 $\frac{3}{4}$ 646 (700-1 $\frac{3}{4}$)	660-2 646 (700-2)
CIRCLING	660-1 645 (700-1)	760-1 $\frac{1}{4}$ 745 (800-1 $\frac{1}{4}$)	800-2 $\frac{1}{4}$ 785 (800-2 $\frac{1}{4}$)	900-3 885 (900-3)

REIL Rwy 8 **L**
REIL Rwy 13
MIRL Rwy 8-26 and 13-31 **L**

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

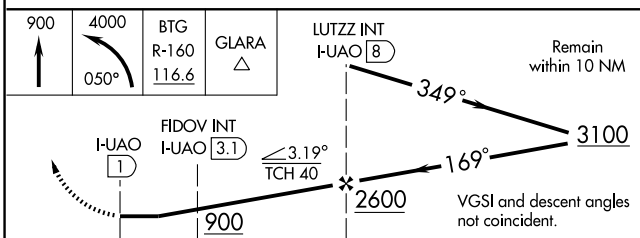
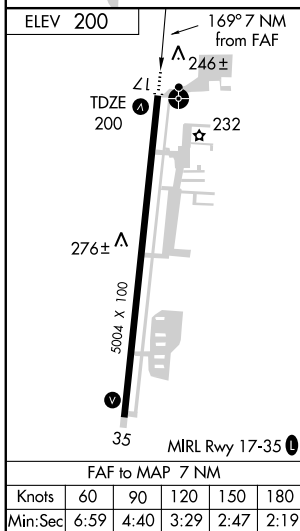
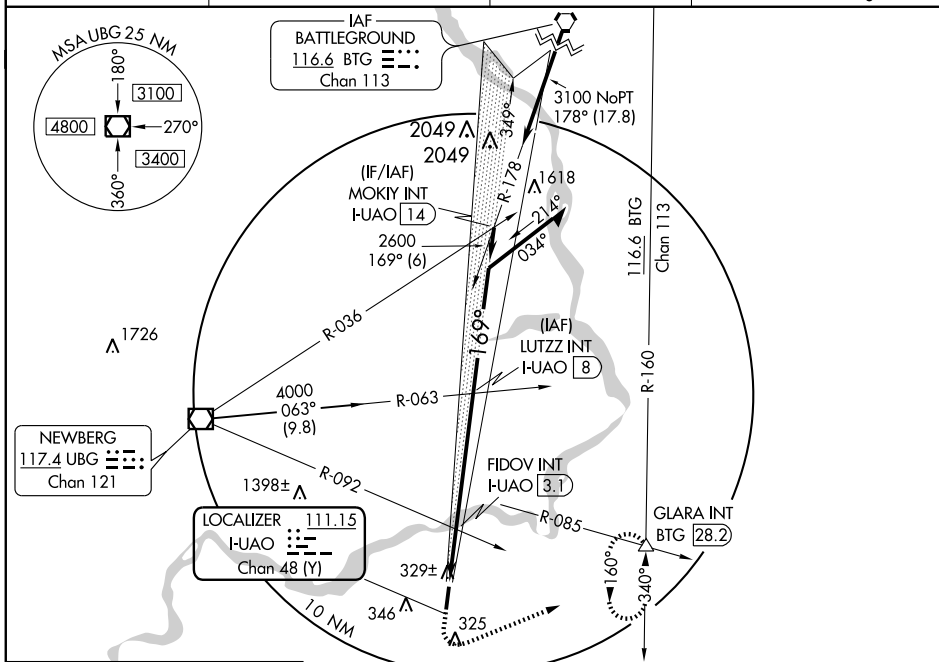
LOC/DME I-UAO 111.15 Chan 48(Y)	APP CRS 169°	Rwy Idg TDZE Apt Elev	5004 200 200
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LOC RWY 17

AURORA STATE (UAO)

▼ Inoperative table does not apply. ▲	ODALS MISSED APPROACH: Climb to 900 then climbing left turn to 4000 via heading 050° and BTG R-160 to GLARA Int/ BTG 28.2 DME and hold. Continue climb-in-hold to 4000.
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ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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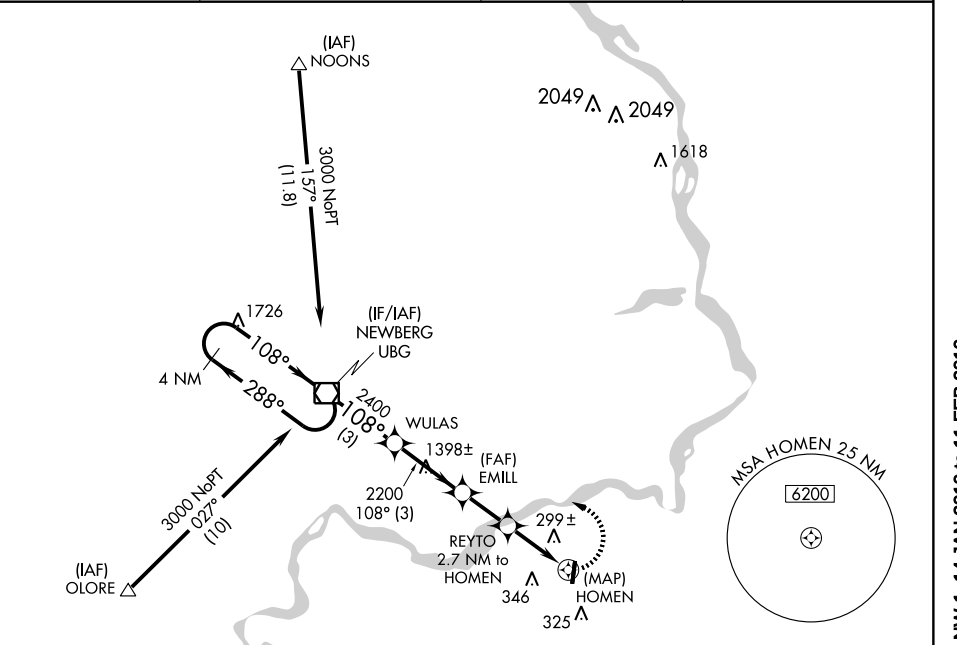
CATEGORY	A	B	C	D
S-17	900-1 700 (700-1)		900-2 700 (700-2)	900-2 ¼ 700 (700-2 ¼)
CIRCLING	900-1 700 (700-1)		900-2 700 (700-2)	900-2 ¼ 700 (700-2 ¼)
FIDOV FIX MINIMUMS				
S-17	580-1 380 (400-1)			580-1 ¼ 380 (400-1 ¼)
CIRCLING	640-1 440 (500-1)	660-1 460 (500-1)	660-1 ½ 460 (500-1 ½)	760-2 560 (600-2)

▽

DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 3500 direct
UBG VOR/DME and hold.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CINC DEL 119.95	UNICOM 122.7 (CTAF) 0
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4 NM Holding Pattern

VOR/DME

3000

288°

108°

2400

2200

1700

3 NM

3 NM

2 NM

2.7 NM

3500

UBG

HOMEN

CATEGORY	A	B	C	D
CIRCLING	640-1 440 (500-1)	660-1 460 (500-1)	660-1½ 460 (500-1½)	760-2 560 (600-2)

ELEV 200

246±

232

276±

5004 X 100

35

MIRL Rwy 17-35 **0**

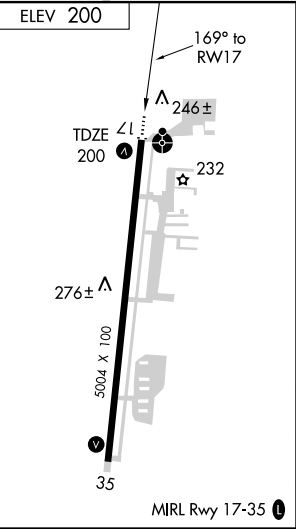
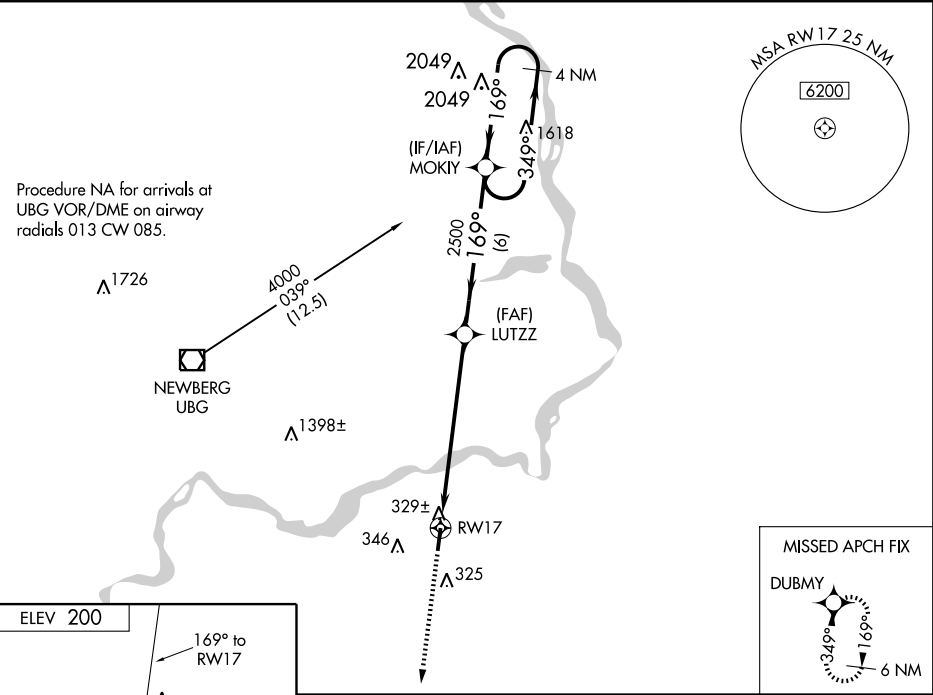
WAAS CH 70308 W17A	APP CRS 169°	Rwy Idg TDZE Apt Elev	5004 200 200
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⚠ DME/DME RNP-0.3 NA. When local altimeter setting not received, use Mc Minnville Muni altimeter setting and increase all DA 42 feet and all MDA 60 feet; increase LPV, LNAV/VNAV visibilities all Cats. ¼ mile, increase LNAV visibility Cats. A/C/D ¼ mile, increase Circling visibilities Cats. A/C/D ¼ mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). Inoperative table does not apply. Visibility reduction by helicopters NA.

ODALS

MISSED APPROACH:
Climb to 3500 direct DUBMY and hold, continue climb-in-hold to 3500.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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3500	DUBMY	VGSI and RNAV glidepath not coincident.	MOKIY	4 NM Holding Pattern
RW17		LUTZZ	MOKIY	
7 NM		6 NM	4 NM	
3500		2500	4000	
169°		169°	349°	
GS 3.00°		TCH 40		
CATEGORY	A	B	C	D
LPV DA	550-1¼ 350 (400-1¼)			
LNAV/VNAV DA	580-1¼ 380 (400-1¼)			
LNAV MDA	1060-1 860 (900-1)	1060-1¼ 860 (900-1¼)	1060-2½ 860 (900-2½)	1060-2¾ 860 (900-2¾)
CIRCLING	1060-1 860 (900-1)	1060-1¼ 860 (900-1¼)	1060-2½ 860 (900-2½)	1060-2¾ 860 (900-2¾)

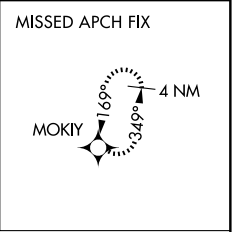
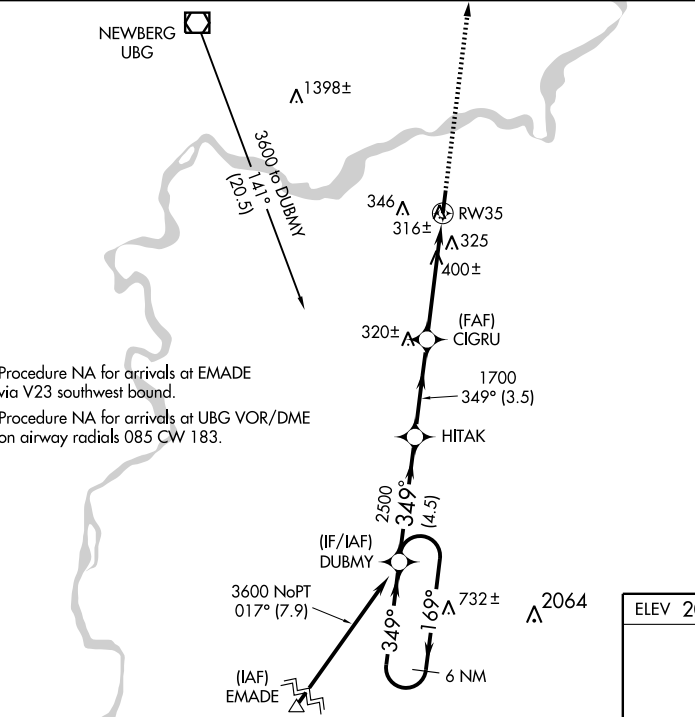
WAAS CH 77508 W35A	APP CRS 349°	Rwy Idg 5004 TDZE 199 Apt Elev 200
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RNAV (GPS) RWY 35
AURORA STATE (UAO)

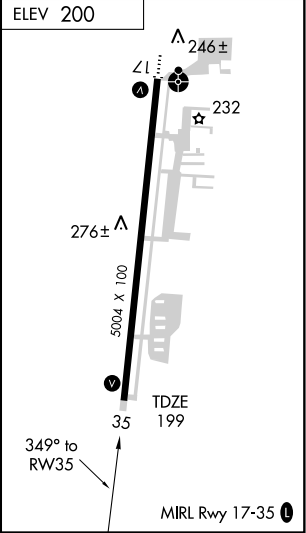
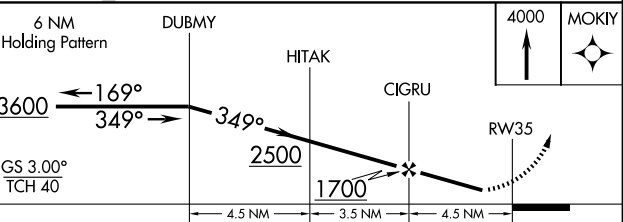
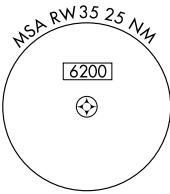
⚠ DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). When local altimeter setting not received, use Mc Minnville Muni altimeter setting and increase all DA 42 feet and MDA 60 feet; increase LPV, LNAV/VNAV visibilities ¼ mile all Cats, increase LNAV Cat D visibility to 1½. Visibility reduction by helicopters NA. Baro-VNAV NA when using Mc Minnville Muni altimeter setting.

MISSED APPROACH: Climb to 4000 direct MOKIY and hold, continue climb-in-hold to 4000.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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Procedure NA for arrivals at EMAD via V23 southwest bound.
Procedure NA for arrivals at UBG VOR/DME on airway radials 085 CW 183.

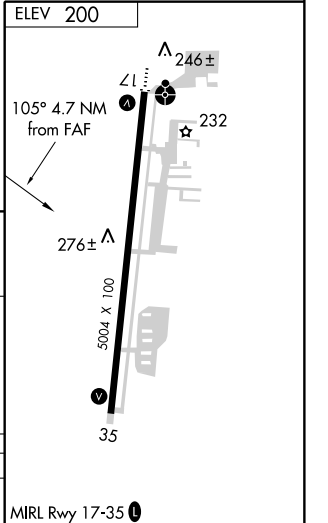
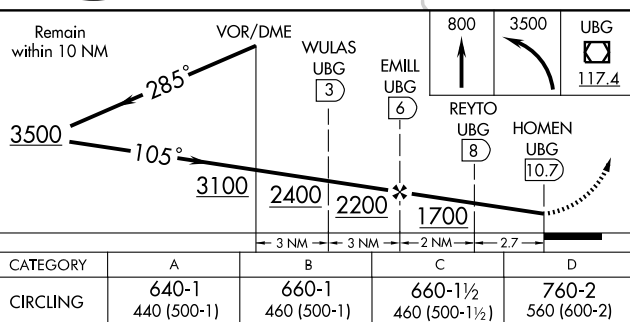
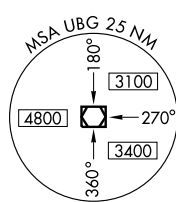
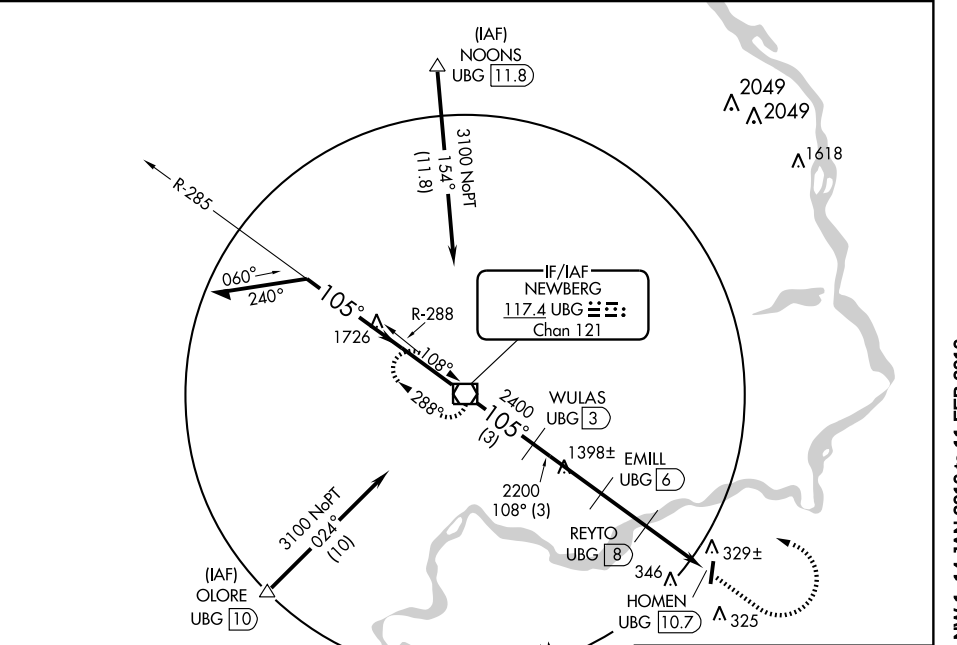


CATEGORY	A	B	C	D
LPV DA		500-1	301 (300-1)	
LNAV/VNAV DA		604-1½	405 (500-1½)	
LNAV MDA	700-1 501 (500-1)		700-1½ 501 (500-1½)	
CIRCLING	700-1 500 (500-1)		700-1½ 500 (500-1½)	760-2 560 (600-2)

NW-1. 14 JAN 2010 to 11 FEB 2010

MISSED APPROACH: Climb to 800 then climbing left turn to 3500 direct UBG VOR/DME and hold.

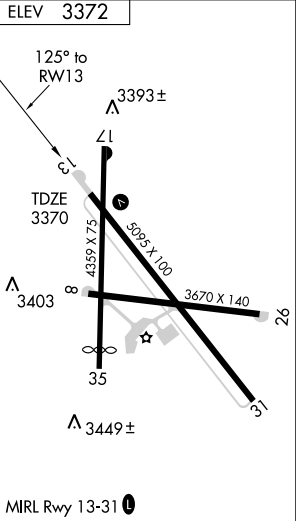
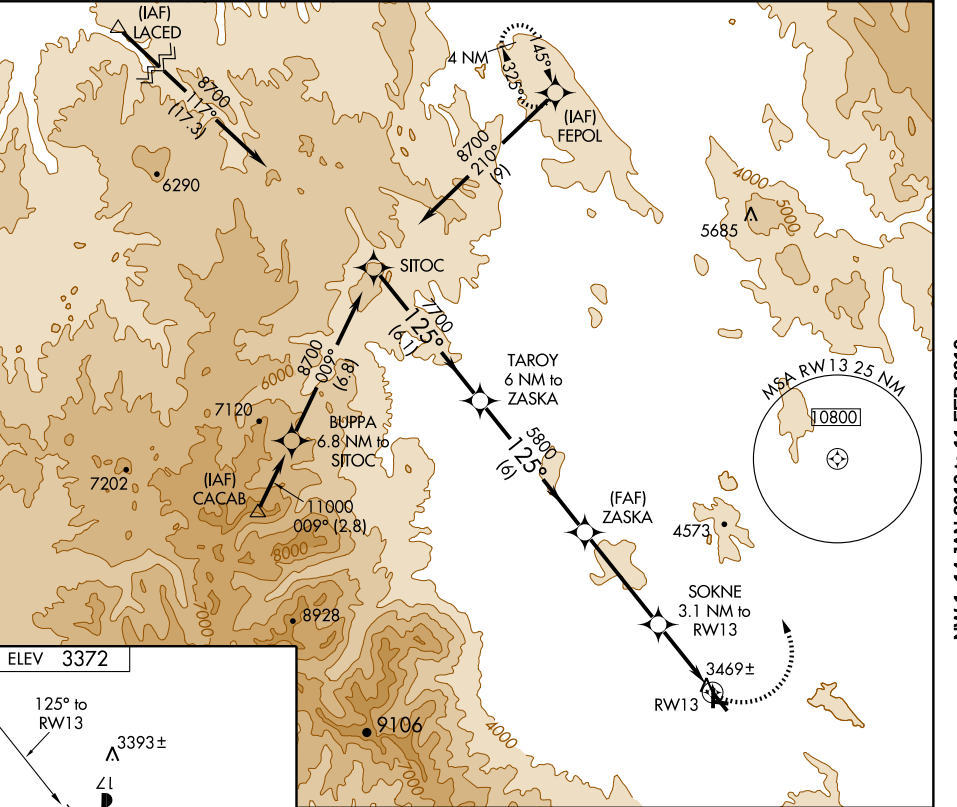
ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 9000 direct FEPOL and hold.

ASOS 134.275	SALT LAKE CENTER 128.05 387.15	UNICOM 123.0 (CTAF) 0
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	SITOC	TAROY 6 NM to ZASKA	ZASKA	SOKNE 3.1 NM to RWY 13	9000	FEPOL
	8700	7700	5800	4420		
	Procedure Turn NA					
	6.1 NM	6 NM	4.2 NM	3.1 NM		
CATEGORY	A	B	C	D		
RNAV MDA	4080-1	710 (800-1)	4080-2 710 (800-2)	4080-2½ 710 (800-2¼)		
CIRCLING	4080-1	708 (800-1)	4080-2 708 (800-2)	4220-2¾ 848 (900-2¾)		

VOR/DME BKE 115.3 Chan 100	APP CRS 135°	Rwy Idg N/A TDZE N/A Apt Elev 3372
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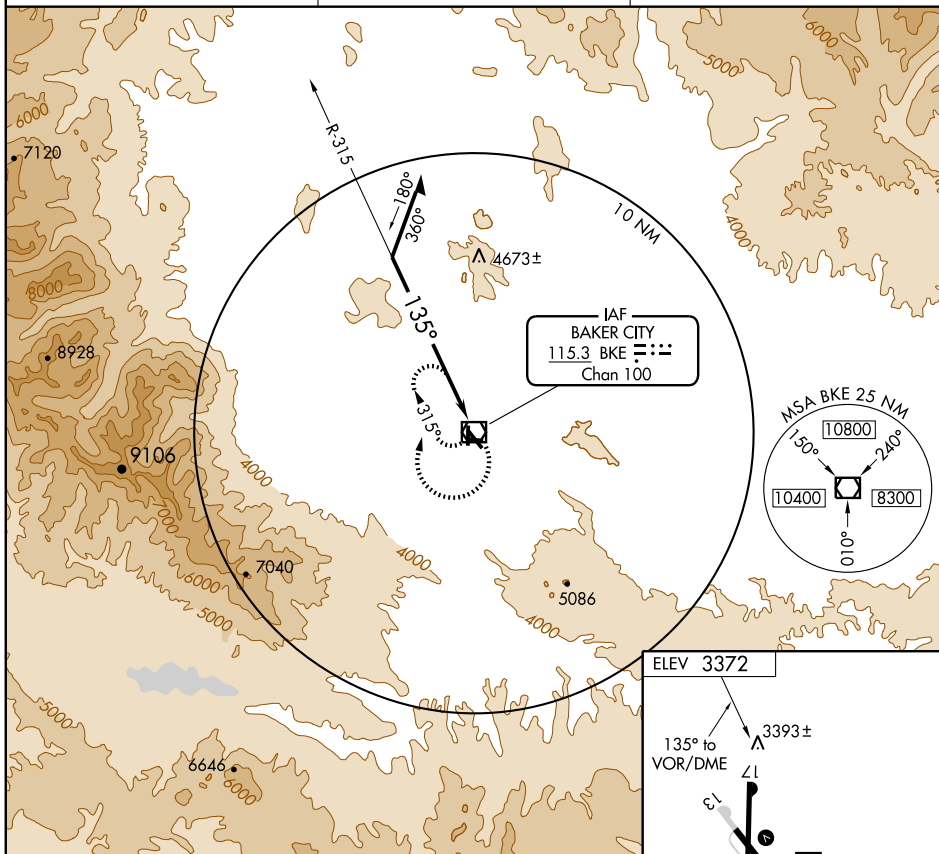
VOR-A
BAKER CITY MUNI (BKE)



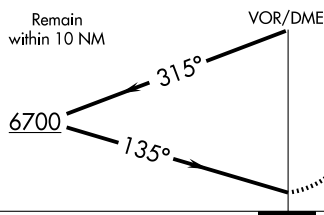
MISSED APPROACH: Climbing right turn to 6900 in BKE VOR/DME holding pattern.

ASOS
134.275

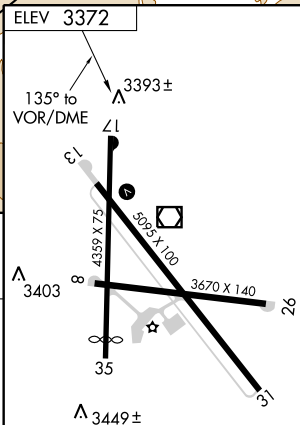
SALT LAKE CENTER
128.05 387.15

UNICOM
123.0 (CTAF) 

NW-1. 14 JAN 2010 to 11 FEB 2010



6900	BKE
	
	115.3



CATEGORY	A	B	C	D
CIRCLING	5200-1¼ 1828 (1900-1¼)	5200-1½ 1828 (1900-1½)	5200-3	1828 (1900-3)

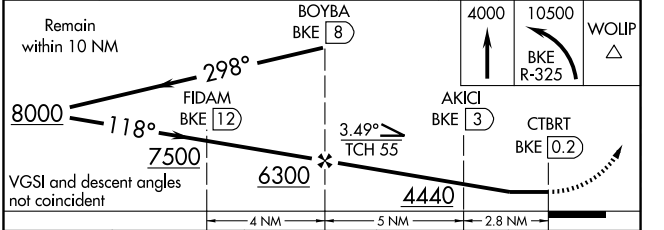
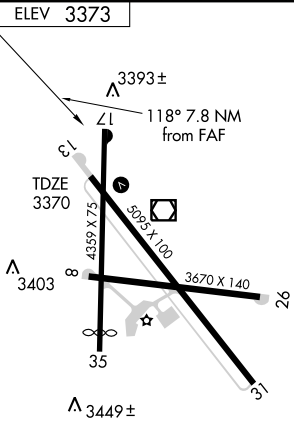
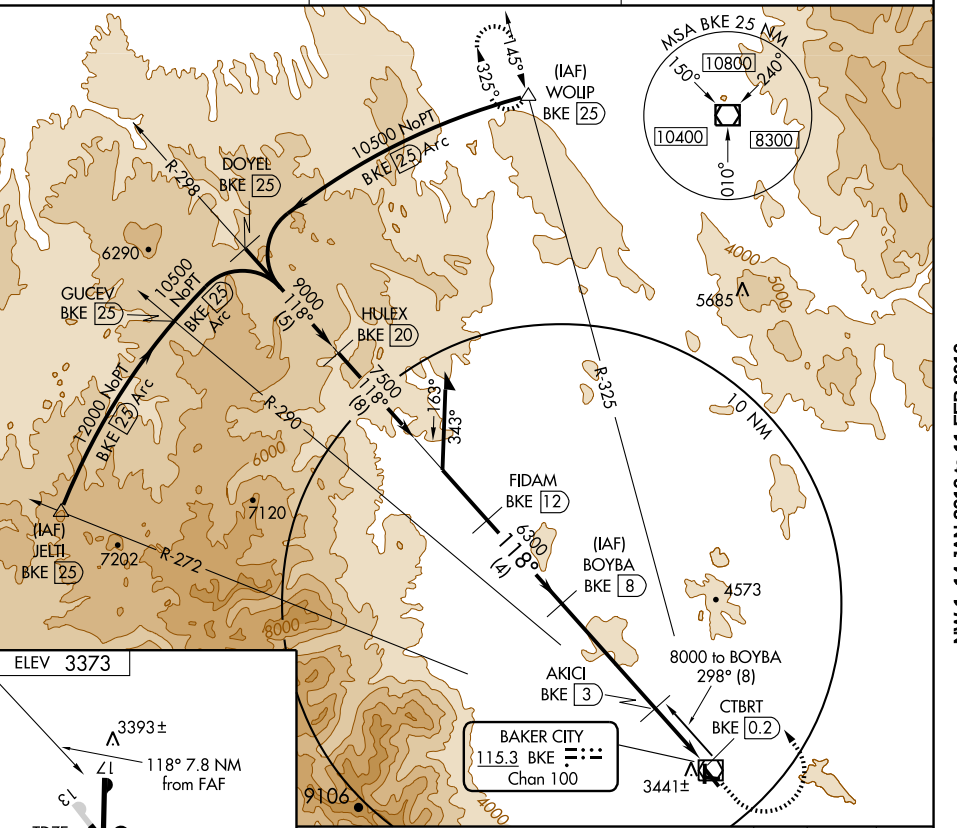
MIRL Rwy 13-31 **L**

▼

▲

MISSED APPROACH: Climb to 4000 then climbing left turn to 10500 via BKE R-325 to WOLUP and hold.

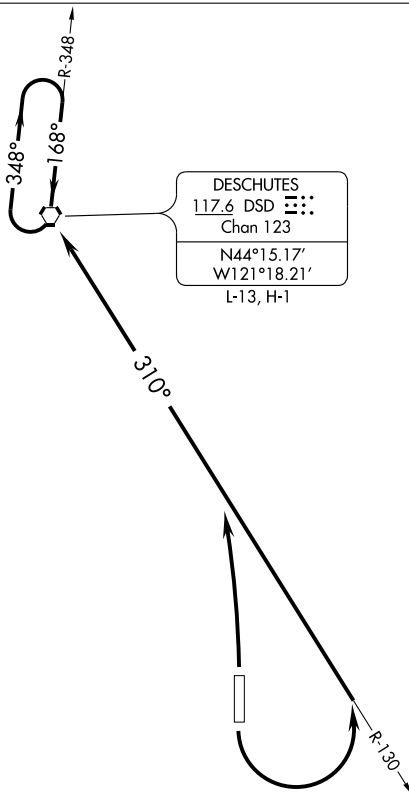
ASOS 134.275	SALT LAKE CENTER 128.05 387.15	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
S-13	4000-1	630 (700-1)	4000-1¾ 630 (700-1¾)	4000-2 630 (700-2)
CIRCLING	4000-1 627 (700-1)	4000-1 627 (700-1)	4000-1¾ 627 (700-1¾)	4220-2¾ 847 (900-2¾)

BEND ONE DEPARTURE (OBSTACLE)

SEATTLE CENTER
128.15 257.75
CTAF 123.0

TAKE-OFF MINIMUMS

Rwys 16, 34: Standard.

TAKE-OFF OBSTACLE NOTES

- Rwy 16: Trees beginning 75' from DER, 412' left of centerline, up to 43' AGL/3572' MSL.
Trees beginning 432' from DER, 5' right of centerline, up to 37' AGL/3541' MSL.
Terrain beginning 27' from DER, 197' right of centerline, up to 3469' MSL.
Road 1' from DER, 414' left of centerline, 17' AGL/3466' MSL.
- Rwy 34: Trees beginning 306' from DER, 178' left of centerline, up to 25' AGL/3436' MSL.
Road beginning 460' from DER, 414' left of centerline, up to 17' AGL/3425' MSL.
Bush 94' from DER, 443' left of centerline, 4' AGL/3407' MSL.
Terrain beginning 1' from DER, 147' left of centerline, up to 3408' MSL.
Trees beginning 52' from DER, 252' right of centerline, up to 39' AGL/3429' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climbing left turn to intercept DSD R-130 to DSD VORTAC,
Thence

TAKE-OFF RUNWAY 34: Climbing left turn to intercept the DSD R-130 to DSD VORTAC,
Thence

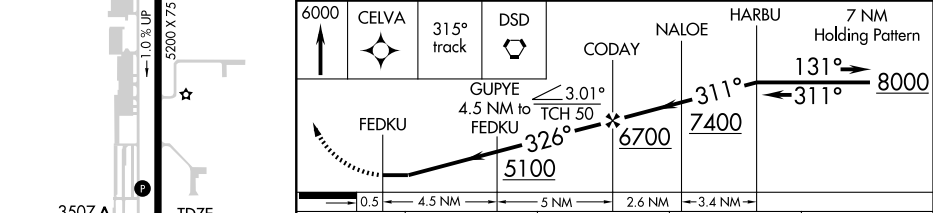
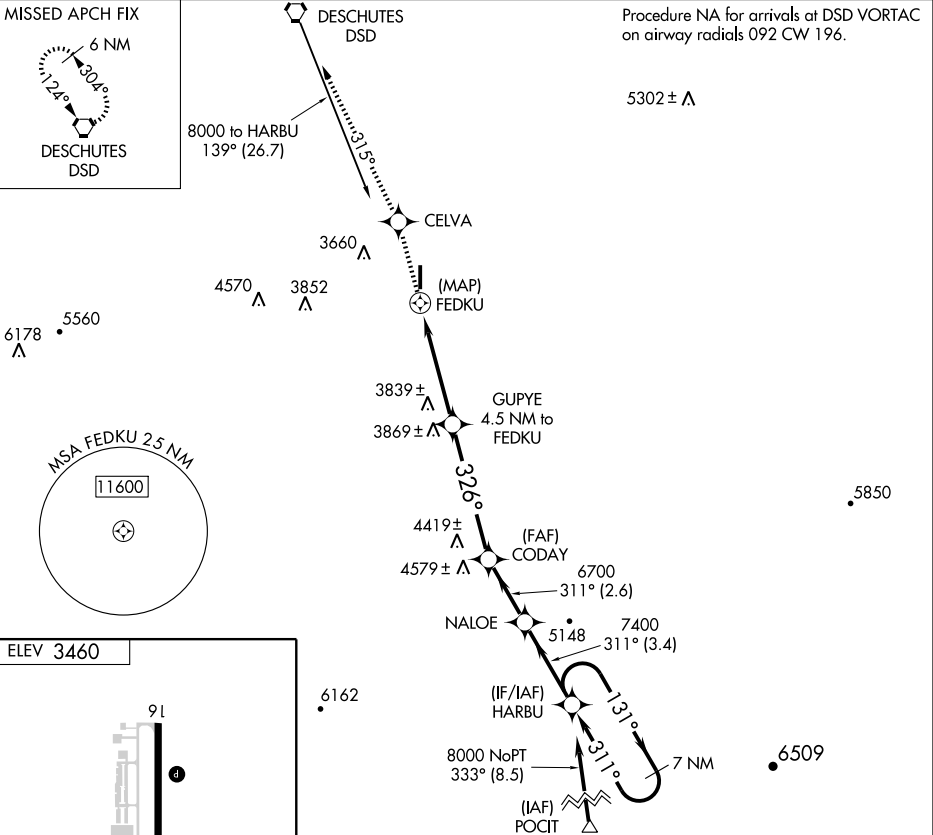
. . . . Climb in DSD VORTAC holding pattern to cross DSD VORTAC at or above the
MEA/MCA for the route of flight.

APP CRS 326°	Rwy Idg 5200 TDZE 3460 Apt Elev 3460
------------------------	--

RNAV (GPS) RWY 34
BEND MUNI (BDN)

NA DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, LNAV Cats C/D visibility ¼ mile and Circling Cat C/D visibility ¼ mile.	MISSED APPROACH: Climb to 6000 direct CELVA and via 315° track to DESCHUTES VORTAC and hold
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AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF)
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CATEGORY	A	B	C	D
LNAV MDA	4100-1 640 (700-1)	4100-1 640 (700-1)	4100-1 640 (700-1 3/4)	4100-2 640 (700-2)
CIRCLING	4100-1 640 (700-1)	4100-1 640 (700-1)	4100-1 640 (700-1 3/4)	4100-2 640 (700-2)

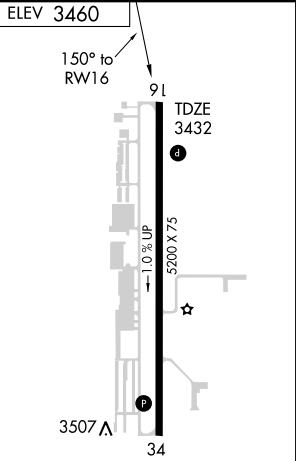
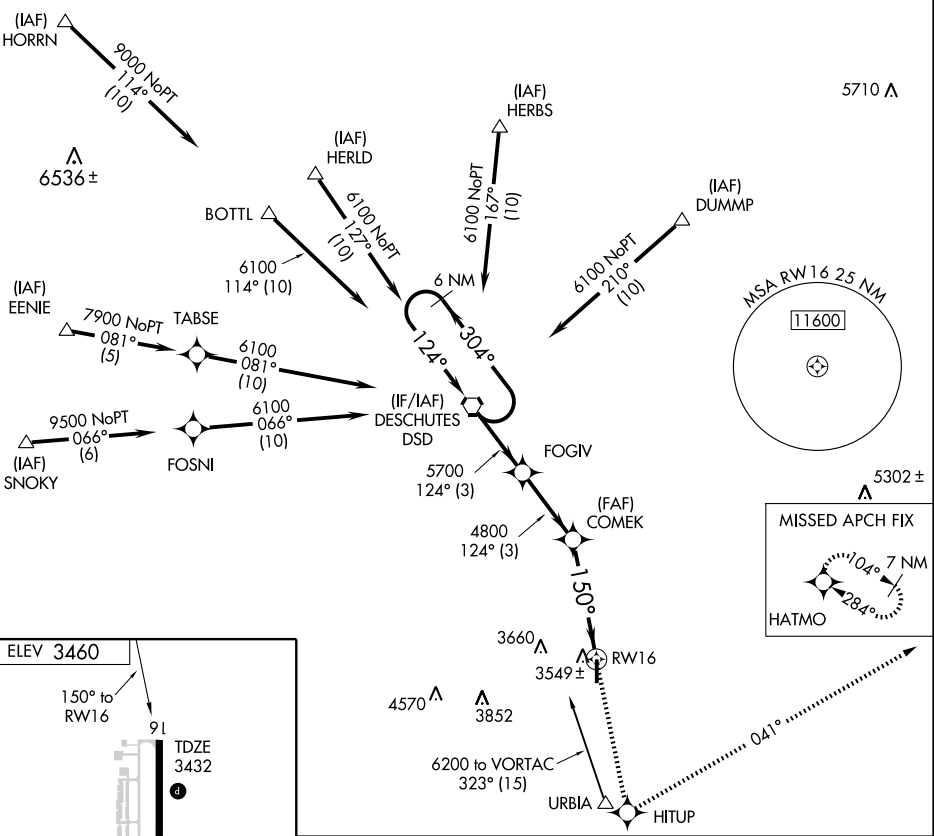
APP CRS	Rwy Idg	5200
150°	TDZE	3432
	Apt Elev	3460

RNAV (GPS) Y RWY 16
BEND MUNI (BDN)

⚠ DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
⚠ NA When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, and LNAV Cats C/D visibility ¼ mile, and circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 7400 direct HITUP and left turn via 041° track to HATMO and hold, continue climb-in-hold to 7400.

AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF) 0
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CATEGORY	6 NM Holding Pattern		VORTAC	FOGIV	COMEK	7400	HITUP	HATMO
	6100		304°	124°	124°	2.91°	TCH 50	041° track
	5700		4800	150°	150°			
	3 NM		3 NM	4.4 NM				
LNAV MDA	3800-1		368 (400-1)	3800-1½		368 (400-1½)		
CIRCLING	3940-1		3980-1	4000-1½		4040-2		
	480 (500-1)		520 (600-1)	540 (600-1½)		580 (600-2)		

WAAS CH 81906 W16A	APP CRS 161°	Rwy Idg TDZE Apt Elev	5200 3432 3460
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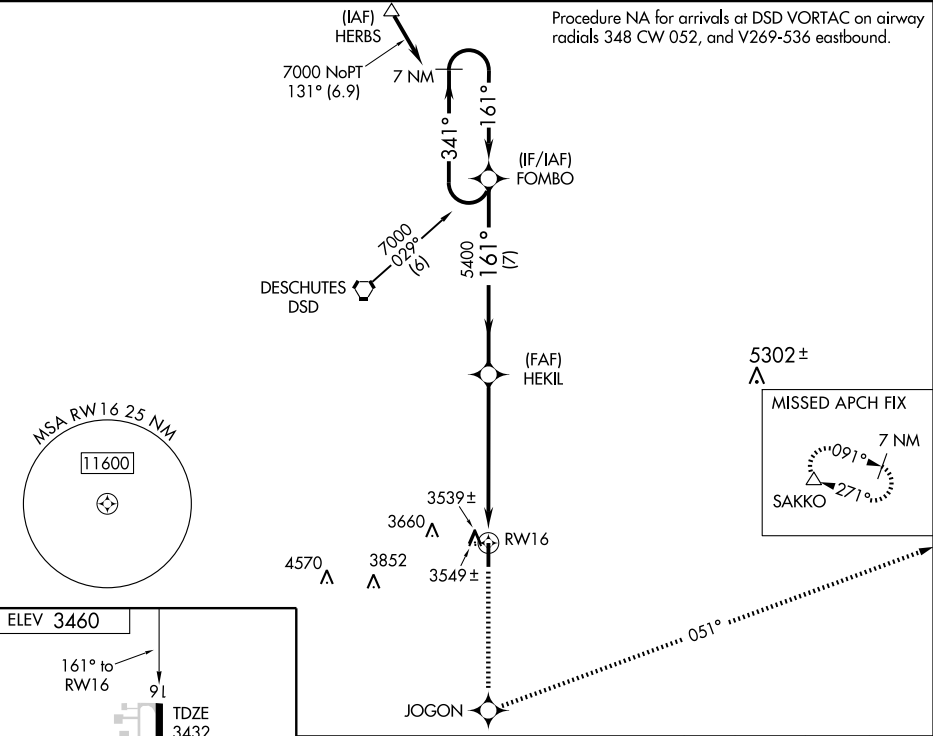
RNAV (GPS) Z RWY 16

BEND MUNI (BDN)

When local altimeter setting not received, use Redmond altimeter setting and increase all DA/MDAs by 80 feet, LPV visibilities ¼ mile all Cats, LNAV/VNAV visibilities ¼ mile all Cats, LNAV Cat D visibility ¼ mile, and circling Cat C visibility ¼ mile.
For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 42°C (107°F).
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 9500 direct JOGON and left turn via 051° track to SAKKO and hold, continue climb-in-hold to 9500.

AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF)
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7 NM Holding Pattern		FOMBO	HEKIL	9500	JOGON	051° track	SAKKO
7000		341°	161°	5400	5400	*1.2 NM to RW16	RW16
GS 3.00° TCH 50						*LNAV only	
		7 NM	4.8 NM	1.2 NM			
CATEGORY	A	B	C	D			
LPV DA	3682-1		250 (300-1)				
LNAV/VNAV DA	3809-1½		377 (400-1½)				
LNAV MDA	3840-1	408 (400-1)	3840-1¼ 408 (400-1¼)				
CIRCLING	3940-1 480 (500-1)	3980-1 520 (600-1)	4000-1½ 540 (600-1½)	4040-2 580 (600-2)			

VORTAC DSD 117.6 Chan 123	APP CRS 136°	Rwy Idg 5200 TDZE 3432 Apt Elev 3460
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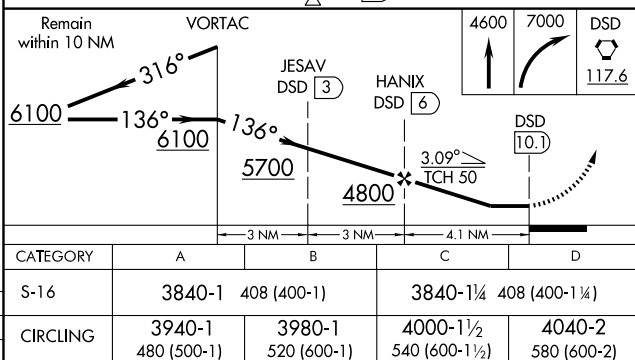
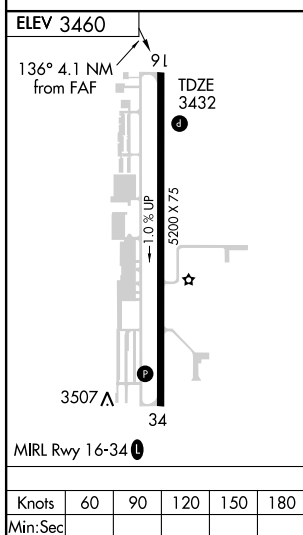
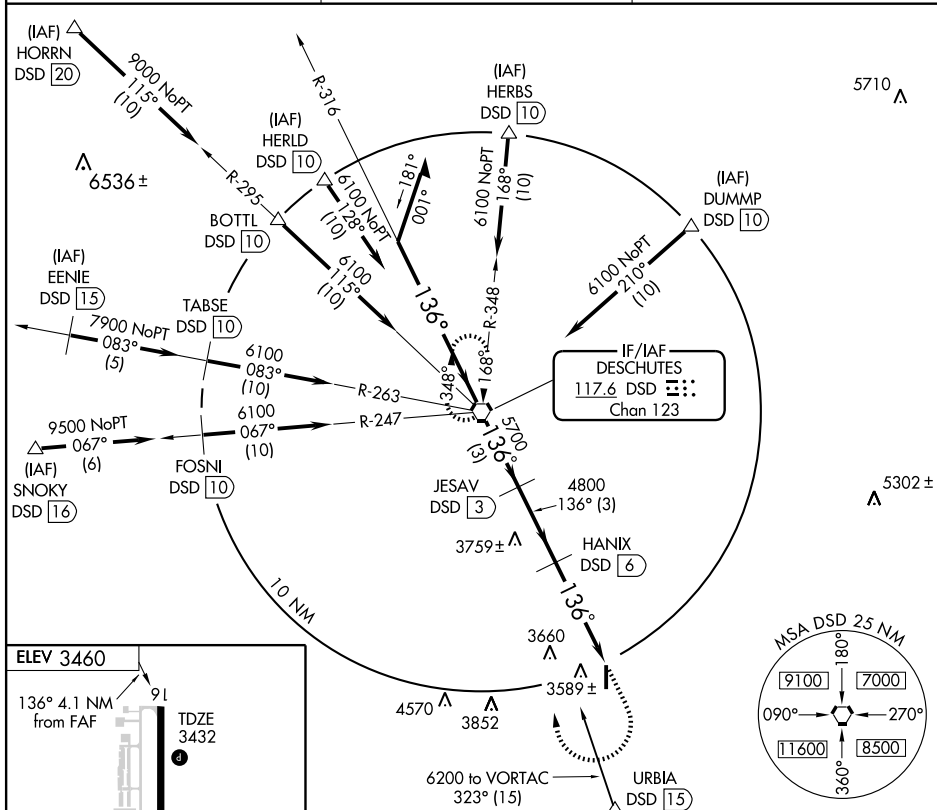
VOR/DME RWY 16
BEND MUNI(BDN)

T When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, increase S-16 Cat D visibility $\frac{1}{4}$ mile, and circling Cat C visibility $\frac{1}{4}$ mile. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct DSD VORTAC and hold.

AWOS-3
134.425

SEATTLE CENTER
128.15 257.75

UNICOM
123.0 (CTAF) **L**

APP CRS	Rwy Idg	5100
297°	TDZE	4148
	Apt Elev	4148

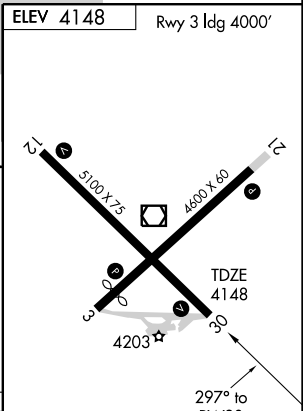
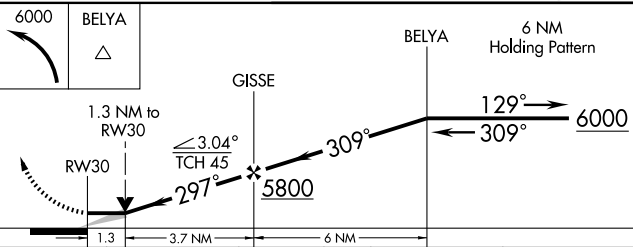
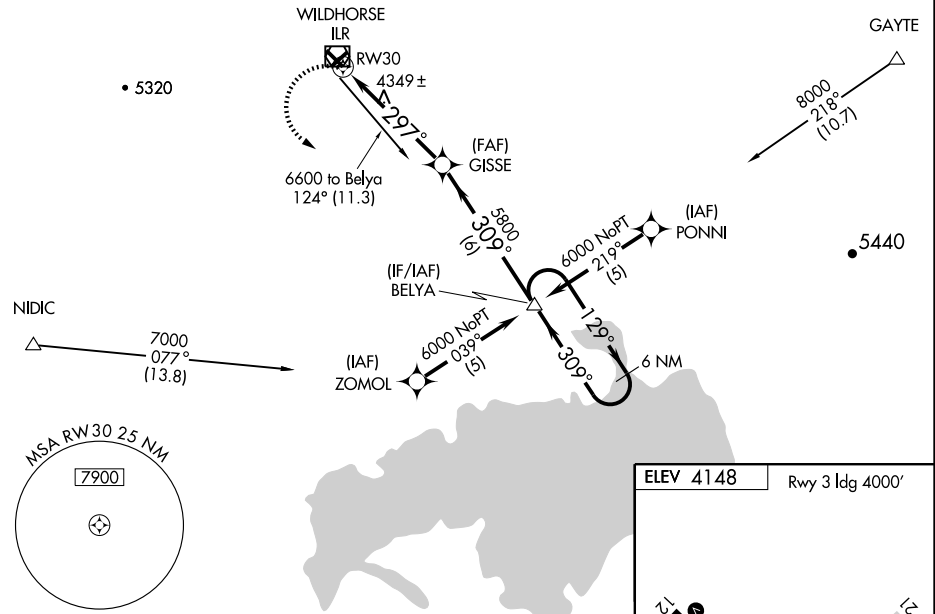
RNAV (GPS) RWY 30

BURNS MUNI (BNO)

NA	MISSED APPROACH: Climbing left turn to 6000 direct BELYA and hold.
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ASOS 135.575	MINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF)
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Procedure NA for arrival at NIDIC via V357 southwestbound.
Procedure NA for arrival at GAYTE via V330 eastbound.
NoPT for arrival at ILR VOR/DME via V497 northwestbound.



CATEGORY	A	B	C	D
RNAV MDA	4600-1	452 (500-1)	4600-1½ 452 (500-1½)	4600-1½ 452 (500-1½)
CIRCLING	4600-1 452 (500-1)	4680-1 532 (600-1)	4680-1½ 532 (600-1½)	4720-2 572 (600-2)

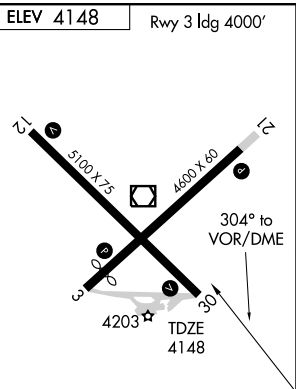
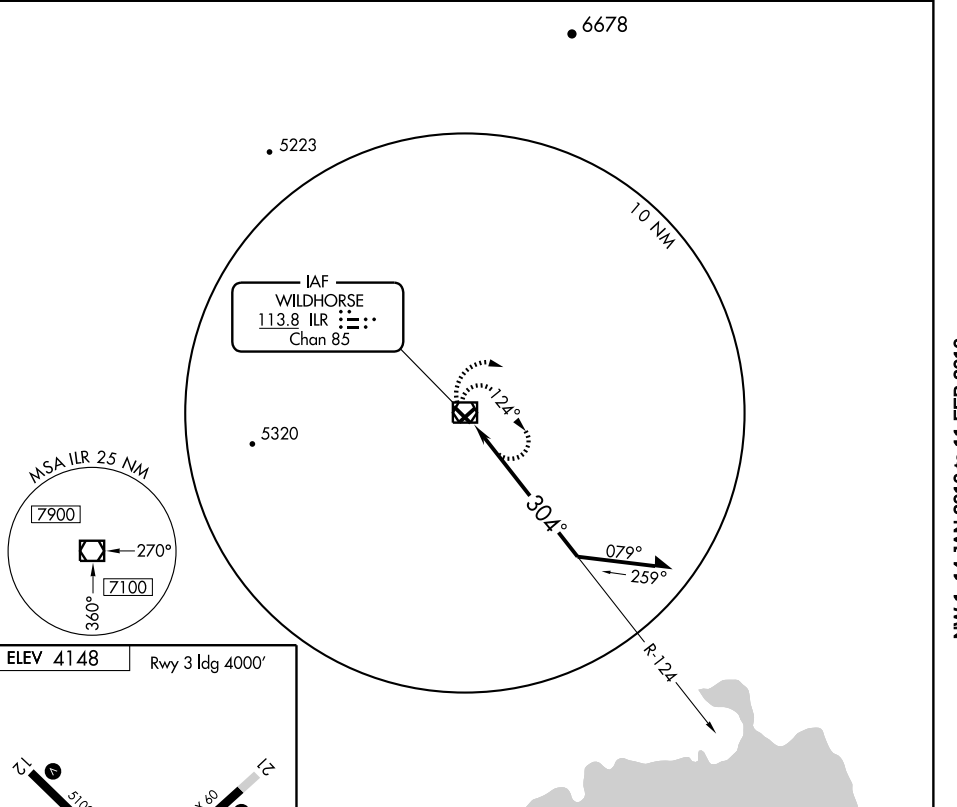
REIL Rwy 3, 12, 21 and 30
MIRL Rwy 3-21 and 12-30

▼

▲

MISSED APPROACH: Climbing right turn to 8000 in ILR VOR/DME holding pattern.

ASOS 135.575	MINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 0
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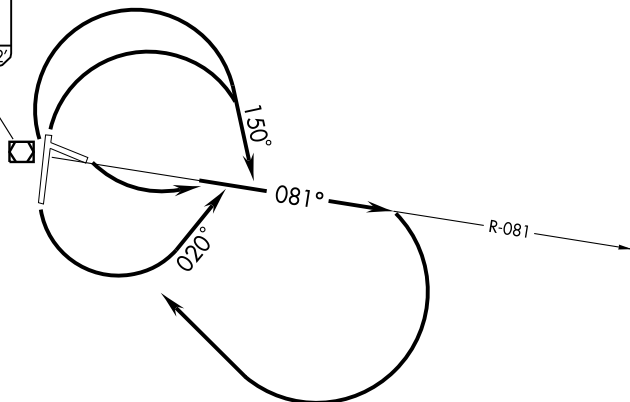


REIL Rwy 3, 12, 21 and 30  MIRL Rwy 3-21 and 12-30 											
		CATEGORY		A		B		C		D	
		S-30		5500-1¼ 1352 (1400-1¼)		5500-1½ 1352 (1400-1½)		5500-3		1352 (1400-3)	
		CIRCLING		5500-1¼ 1352 (1400-1¼)		5500-1½ 1352 (1400-1½)		5500-3		1352 (1400-3)	
Knots	60	90	120	150	180						
Min:Sec											

CORVALLIS ONE DEPARTURE

AWOS-3 135.775
 CASCADE DEP CON ★
 127.5 348.7
 CTAF 123.0
 SEATTLE CENTER
 125.8

CORVALLIS
 115.4 CVO 
 Chan 101
 N44°29.97'-W123°17.62'



TAKEOFF MINIMUMS

Rwy 9, 200-1 or standard with minimum climb of 245' per NM to 500.

Rwys 17/35, standard.

Rwy 27, standard with minimum climb of 310' per NM to 2300.

TAKEOFF OBSTACLE NOTES

Rwy 9: Multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL.

Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL.

Rwy 27: OL on GS 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35: Multiple trees beginning 470' from departure end of runway, 544' left of centerline, up to 36' AGL/276' MSL.

Tree 2.3 NM from departure end of runway, 1976' left of centerline, 128' AGL/607' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to 3000 via CVO R-081, thence. . .

TAKE-OFF RUNWAY 17: Climbing left turn to 3000 via heading 020° and CVO R-081, thence. . .

TAKE-OFF RUNWAYS 27 and 35: Climbing right turn to 3000 via heading 150° and CVO R-081, thence. . .

.... climbing right turn to 4000 direct CVO VOR/DME. Continue climb on course to MEA for route of flight.

LOST COMMUNICATIONS: If not contact with ATC upon reaching 3000', continue climb to assigned altitude direct CVO VOR/DME. Thence via assigned route of flight.

LOC I-CVO <u>111.9</u>	APP CRS 169°	Rwy Idg 5900 TDZE 244 Apt Elev 246
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ILS RWY 17
CORVALLIS MUNI (CVO)



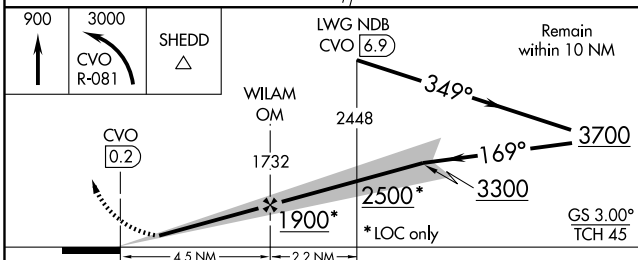
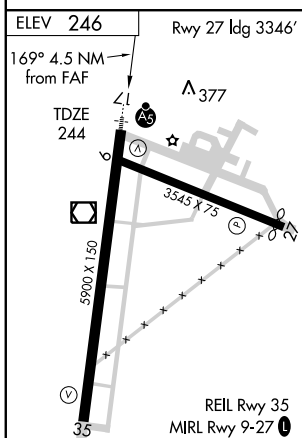
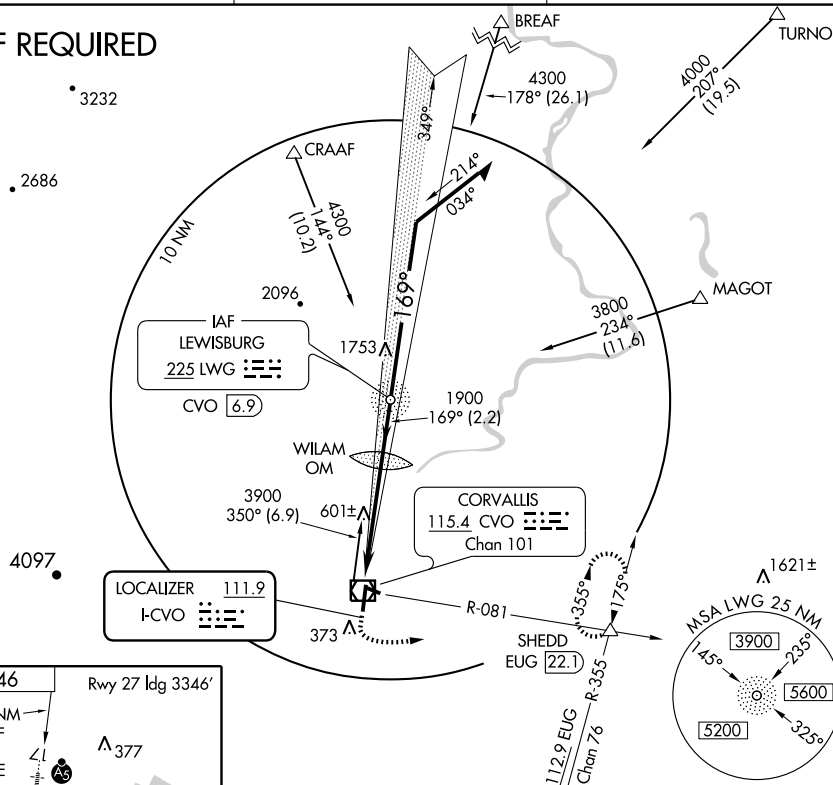
MALSR



MISSED APPROACH: Climb to 900 then climbing left turn to 3000 via the CVO R-081 to SHEDD Int and hold.

AWOS-3 135.775	CASCADE APP CON★ 127.5 348.7	UNICOM 123.0 (CTAF) 0
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ADF REQUIRED



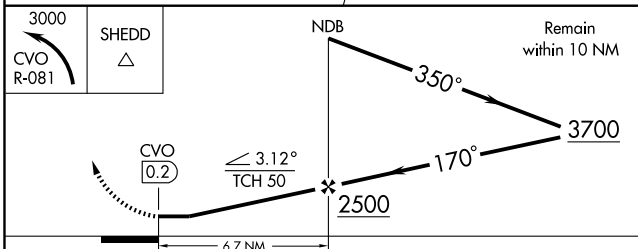
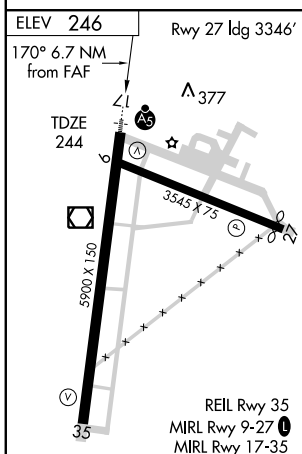
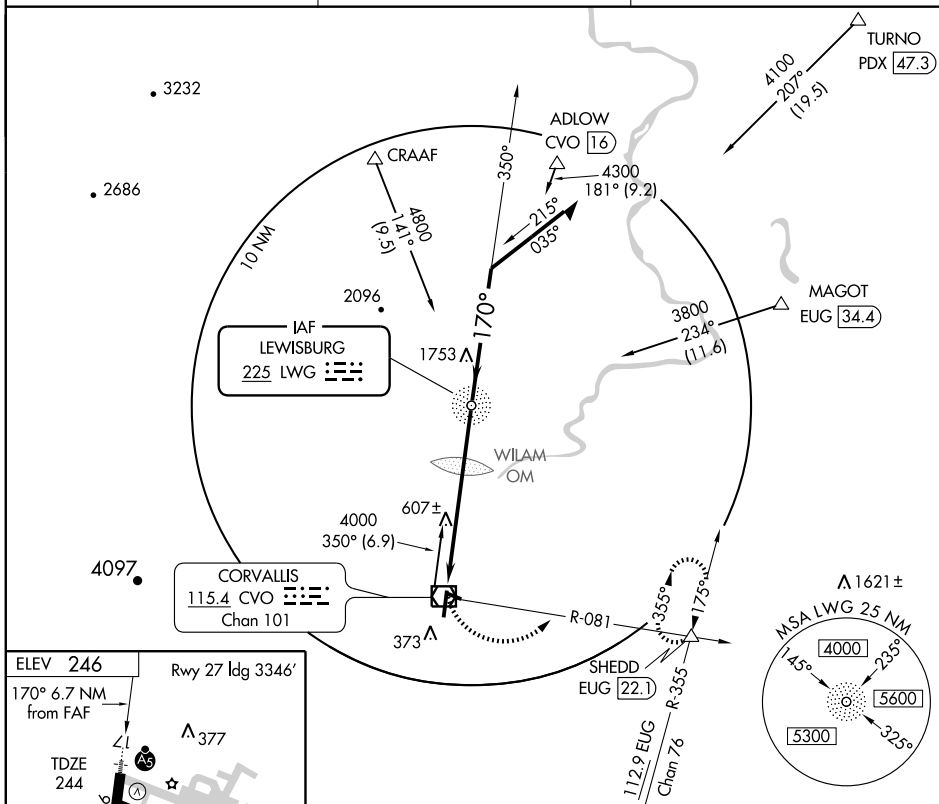
	REIL Rwy 35		CATEGORY		A		B		C		D	
	MRL Rwy 9-27		S-LS 17		444-½		200		(200-½)			
	MRL Rwy 17-35		S-LOC 17		860-½		616 (700-½)		860-1¼		860-1½	
	FAF to MAP 4.5 NM								616 (700-1¼)		616 (700-1½)	
Knots		60	90	120	150	180						
Min:Sec		4:30	3:00	2:15	1:48	1:30	CIRCLING		860-1		880-2	
									614 (700-1)		614 (700-2)	

NDB RWY 17
CORVALLIS MUNI (CVO)



MISSED APPROACH: Climbing left turn to 3000 via the CVO R-081 to SHEDD Int/EUG 22.1 DME and hold.

CASCADE APP CON★
127.5 348.7

UNICOM
123.0 (CTAF) **L**

35 MIRL Rwy 9-27 MIRL Rwy 17-35						CATEGORY		A		B		C		D			
						S-17		960-3¼ 716 (800-¾)				960-1½ 716 (800-1½)				960-2 716 (800-2)	
						CIRCLING		960-1 714 (800-1)				960-2 714 (800-2)				960-2¼ 714 (800-2¼)	
FAF to MAP 6.7 NM																	
Knots	60	90	120	150	180												
Min:Sec	6:42	4:28	3:21	2:41	2:14												

WAAS CH 78311 W17A	APP CRS 169°	Rwy Idg 5900 TDZE 248 Apt Elev 250
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RNAV (GPS) RWY 17

CORVALLIS MUNI (CVO)



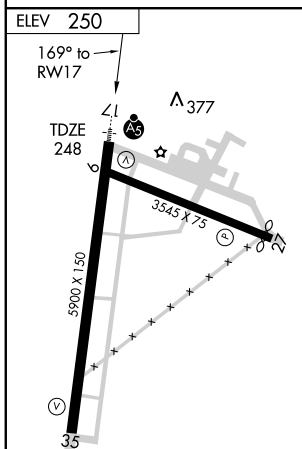
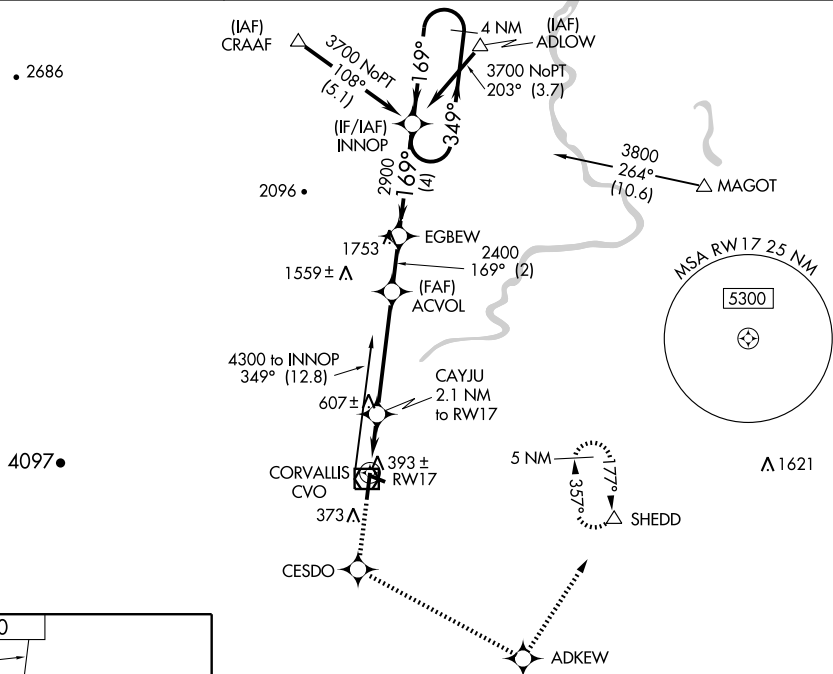
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. Inoperative table does not apply to LNAV Cats A and B. For inoperative MALSR increase LNAV Cats C and D visibility to 1¼.

MALSR



MISSED APPROACH: Climb to 3000 direct CESDO and via 100° track to ADKEW and via 015° track to SHEDD and hold.

AWOS-3 135.775	CASCADE APP CON★ 127.5 348.7	UNICOM 123.0 (CTAF) 0
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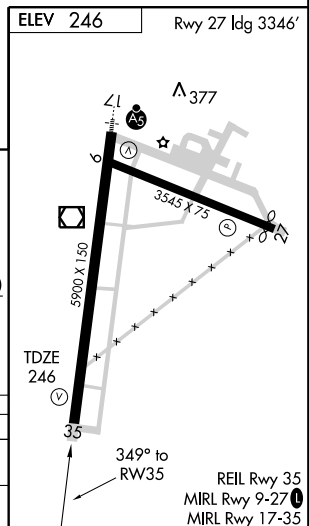


VGS1 and glidepath not coincident. 4 NM Holding Pattern		3000 ↑	CESDO ✦	100° track ✦	ADKEW ✦	015° track ✦	SHEDD △
3700 ← 349° 169° →		INNOP	EGBEW 2900	ACVOL 2400 ✕	CAYJU 2.1 NM to RW17	* LNAV only	
GS 3.00° TCH 45		4 NM	2 NM	4.4 NM	2.1	RW17	
CATEGORY	A	B	C	D			
LPV DA		582-1	334 (400-1)				
LNAV/DA VNAV		670-1	422 (500-1)				
LNAV MDA		660-1	412 (500-1)				
CIRCLING	720-1 470 (500-1)	720-1½ 470 (500-1½)	900-2 650 (700-2)				

REIL Rwy 35
MIRL Rwy 9-27 **L**
MIRL Rwy 17-35

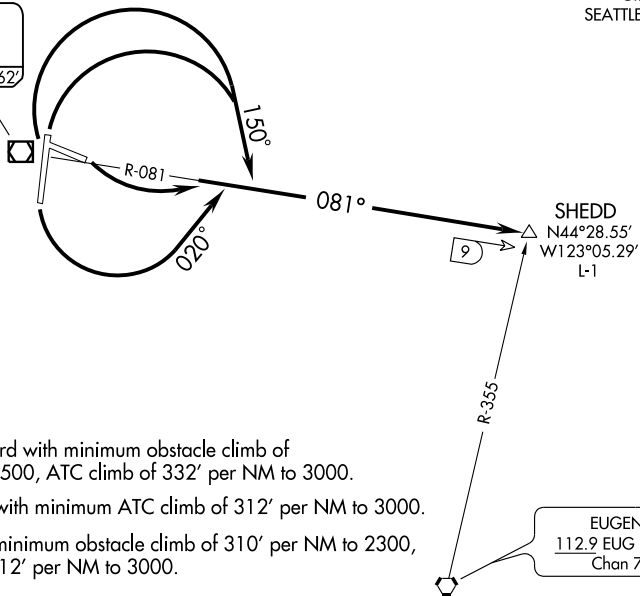
MISSED APPROACH: Climbing right turn to 3400 direct DERAY WP and hold.

UNICOM
123.0 (CTAF) **L**



SHEDD ONE DEPARTURE

CORVALLIS
115.4 CVO
Chan 101
N44°29.97'-W123°17.62'



AWOS-3 135.775
CASCADE DEP CON ★
127.5 348.7
CTAF 123.0
SEATTLE CENTER
125.8

TAKEOFF MINIMUMS

- Rwy 9, 200-1 or standard with minimum obstacle climb of 245' per NM to 500, ATC climb of 332' per NM to 3000.
- Rwys 17/35, standard with minimum ATC climb of 312' per NM to 3000.
- Rwy 27, standard with minimum obstacle climb of 310' per NM to 2300, ATC climb of 312' per NM to 3000.

TAKEOFF OBSTACLE NOTES

- Rwy 9: Multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL.
Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL.
- Rwy 27: OL on GS 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.
- Rwy 35: Multiple trees beginning 470' from departure end of runway, 544' left of centerline, up to 36' AGL/276' MSL.
Tree 2.3 NM from departure end of runway, 1976' left of centerline, 128' AGL/607' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to 3000 via CVO R-081 to SHEDD INT, thence. . .

TAKE-OFF RUNWAY 17: Climbing left turn to 3000 via heading 020° and CVO R-081 to SHEDD INT, thence. . .

TAKE-OFF RUNWAYS 27 and 35: Climbing right turn to 3000 via heading 150° and CVO R-081 to SHEDD INT, thence. . .

. . . via assigned route/clearance.

LOST COMMUNICATIONS: If not contact with ATC upon reaching 3000', continue climb to assigned altitude direct CVO VOR/DME. Thence via assigned route of flight.

VOR/DME CVO 115.4 Chan 101	APP CRS 252°	Rwy Idg TDZE Apt Elev	N/A N/A 246
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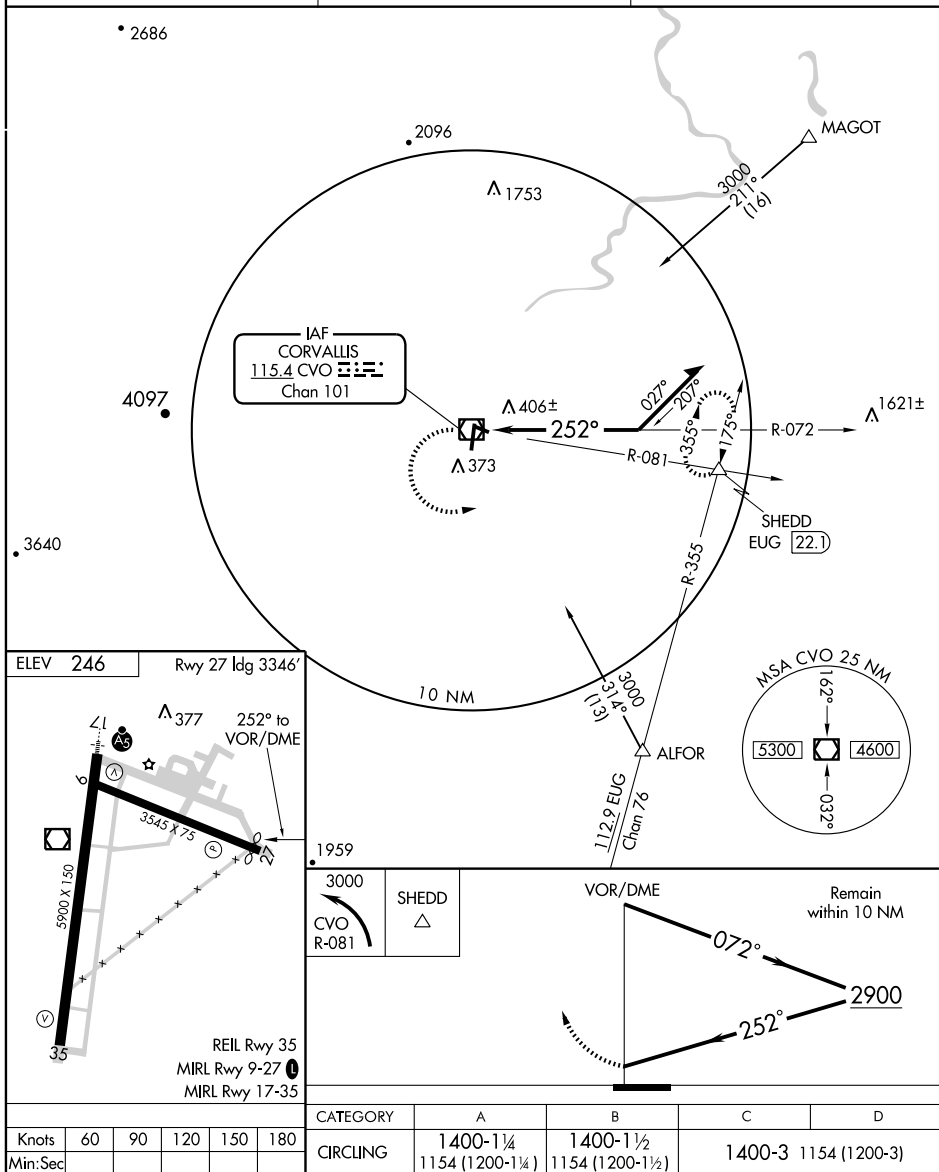
VOR-A
CORVALLIS MUNI (CVO)



MISSED APPROACH: Climbing left turn to 3000 via CVO
VOR/DME R-081 to SHEDD Int/EUG 22.1 DME and hold.

AWOS-3
135,775

CASCADE APP CON★
127.5 348.7

UNICOM
123.0 (CTAF) **L**

VOR/DME CVO 115.4 Chan 101	APP CRS 177°	Rwy Idg 5900 TDZE 244 Apt Elev 246
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VOR/DME RWY 17
CORVALLIS MUNI (CVO)

T For inoperative MALSRS, increase S-17 Cat. D to 1 1/4 mile.

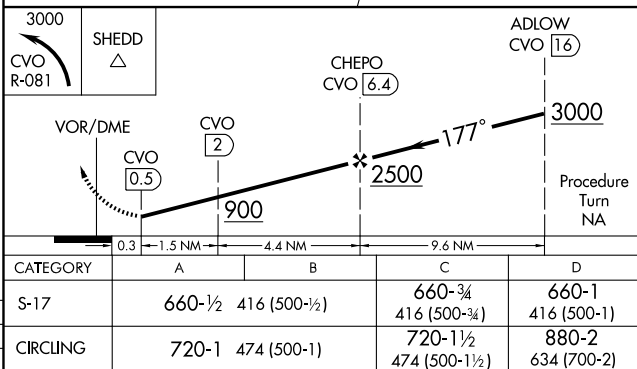
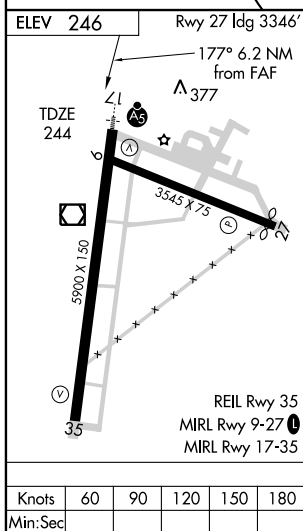
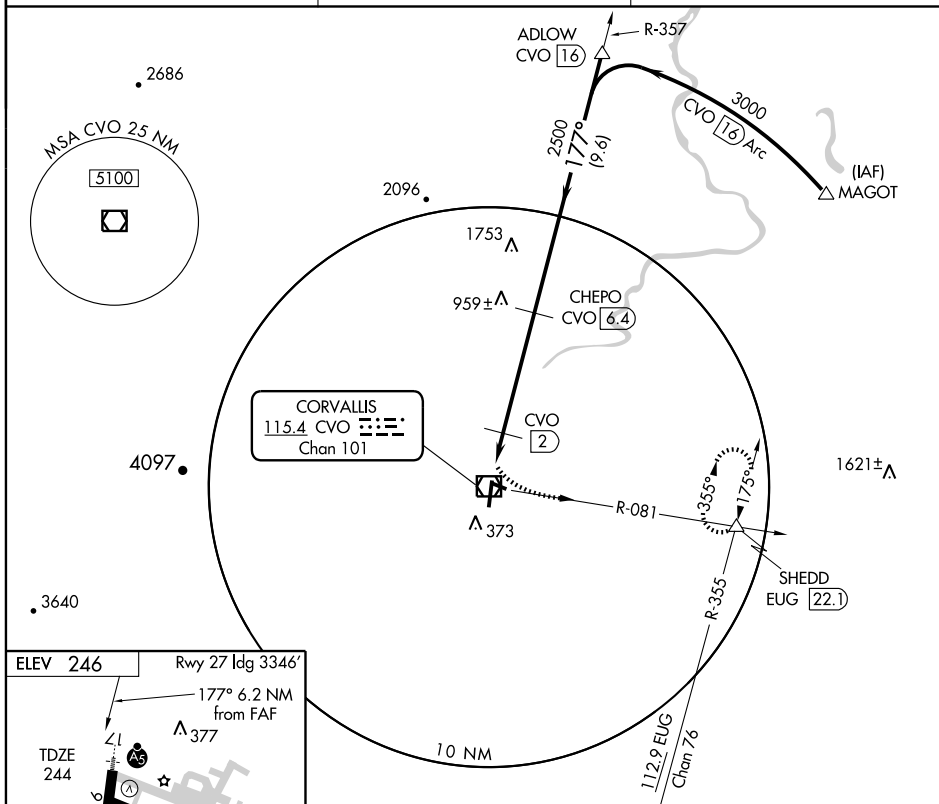
MALSR

MISSED APPROACH: Climbing left turn to 3000 via CVO R-081 to SHEDD Int and hold.

AWOS-3
135.775

CASCADE APP CON ★
127.5 348.7

UNICOM
123.0 (CTAF) **L**



VOR/DME CVO 115.4 Chan 101	APP CRS 342°	Rwy Idg 5900 TDZE 246 Apt Elev 246
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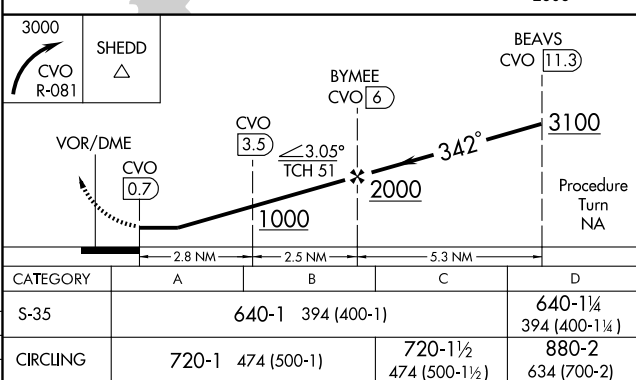
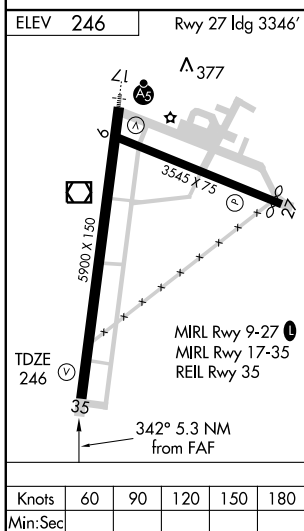
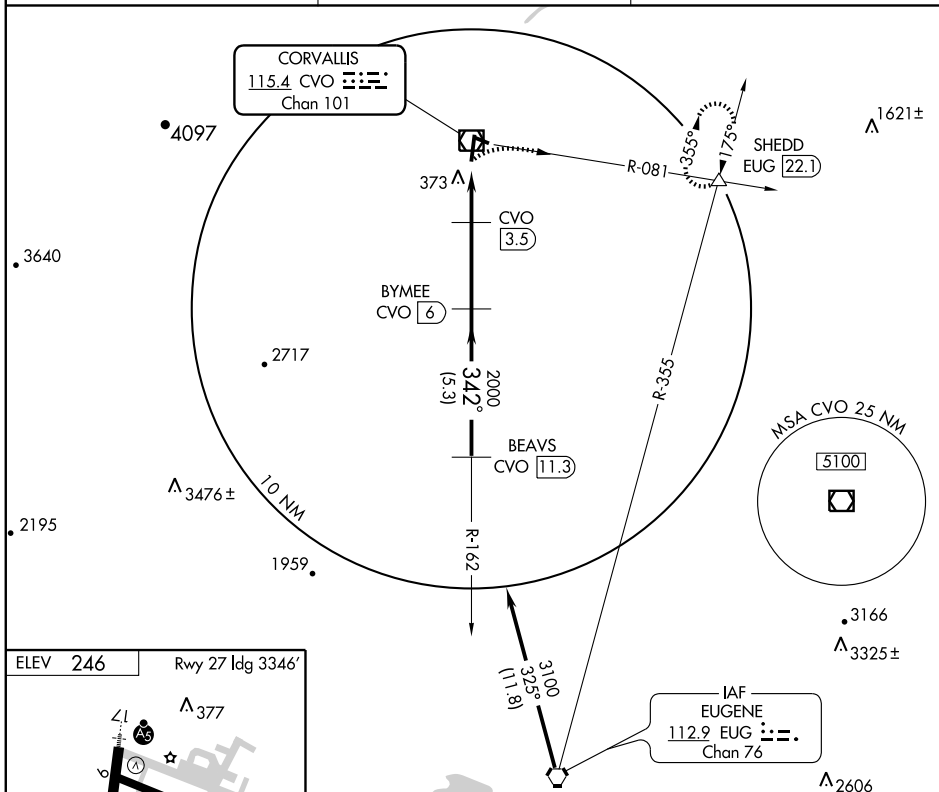
VOR/DME RWY 35
CORVALLIS MUNI (CVO)

MISSED APPROACH: Climbing right turn to 3000 via CVO R-081 to SHEDD Int and hold.

AWOS-3
135.775

CASCADE APP CON ★
127.5 348.7

UNICOM
123.0 (CTAF) **L**



EUGENE/MAHLON SWEET FIELD (EUG)
EUGENE, OREGON

EUGENE, OREGON

D

— 44°08.0'N

-44°07.5'N

44°07.0'N

123°13.5'W

123°13.0'W

123°12.5'W

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

GENERAL
AVIATION
PARKING

TERMINAL

FIRE STATION

CONTROL
- TOWER
494

GENERAL
AVIATION
PARKING

FIELD
ELEV
374

NW-1. 14 JAN 2010 to 11 FEB 2010

EUGENE SEVEN DEPARTURE

SL-140 (FAA)

EUGENE/MAHLON SWEET FIELD (EUG)

EUGENE, OREGON

ATIS 125.225
GND CON
121.7 269.5
EUGENE TOWER ★
118.9 (CTAF) 371.9 (Rwy 16R-34L)
124.15 371.9 (Rwy 16L-34R)
CASCADE DEP CON
119.6 348.7

CORVALLIS
115.4 CVO
Chan 101
N44°29.97' - W123°17.62'
L-1

NEWPORT
117.1 ONP
Chan 118
N44°34.52' - W124°03.64'
L-1, H-1

BATTLEGROUND
116.6 BTG
Chan 113
N45°44.87' - W122°35.49'
L-1, H-1

NEWBERG
117.4 UBG
Chan 121
N45°21.19' - W122°58.69'
L-1, H-1

TAKE-OFF OBSTACLE NOTES

Rwy 16R: Tree 1992' from DER, 832' left of centerline, 50' AGL/419' MSL.

Rwy 16L: Multiple trees and power poles beginning 872' from DER, 35' right of centerline, up to 50' AGL/437' MSL.

Multiple trees and power poles beginning 890' from DER, 77' left of centerline, up to 50' AGL/433' MSL.

Rwy 34R: Multiple trees beginning 2869' from DER, 186' right of centerline, up to 50' AGL/447' MSL.
Tree 2535' from DER, 652' left of centerline, 50' AGL/428' MSL.

EUGENE
112.9 EUG
Chan 76
N44°07.25' - W123°13.37'
L-1, H-1

DESCHUTES
117.6 DSD
Chan 123
N44°15.17' - W121°18.21'
L-13, H-1

NORTH BEND
112.1 OTH
Chan 58
N43°24.93' - W124°10.11'
L-1

ROSEBURG
108.2 RBG
Chan 19
N43°10.95' - W123°21.13'
L-1

ROGUE VALLEY
113.6 OED
Chan 83
N42°28.77' - W122°54.78'
L-2, H-3

KLAMATH FALLS
115.9 LMT
Chan 106
N42°09.19' - W121°43.65'
L-2, H-3

TAKE-OFF MINIMUMS

Rwy 16L/16R: Standard with minimum climb of 305' per NM to 6000.

Rwy 34L/34R: Standard with minimum climb of 320' per NM to 6000.

NOTE: Aircraft taxiing beyond Rwy 16R departure end 500' left of centerline.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

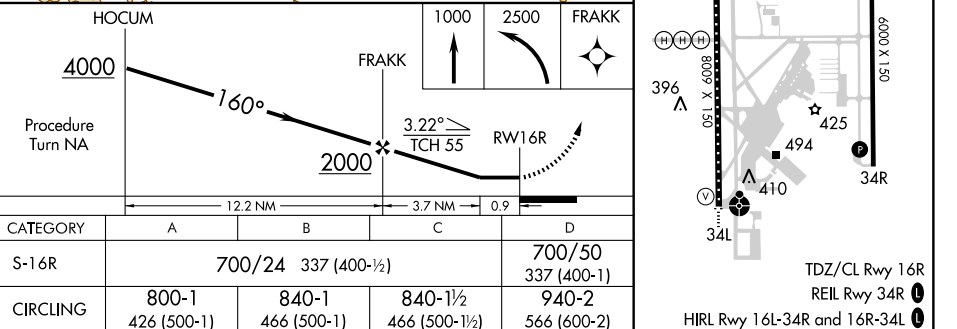
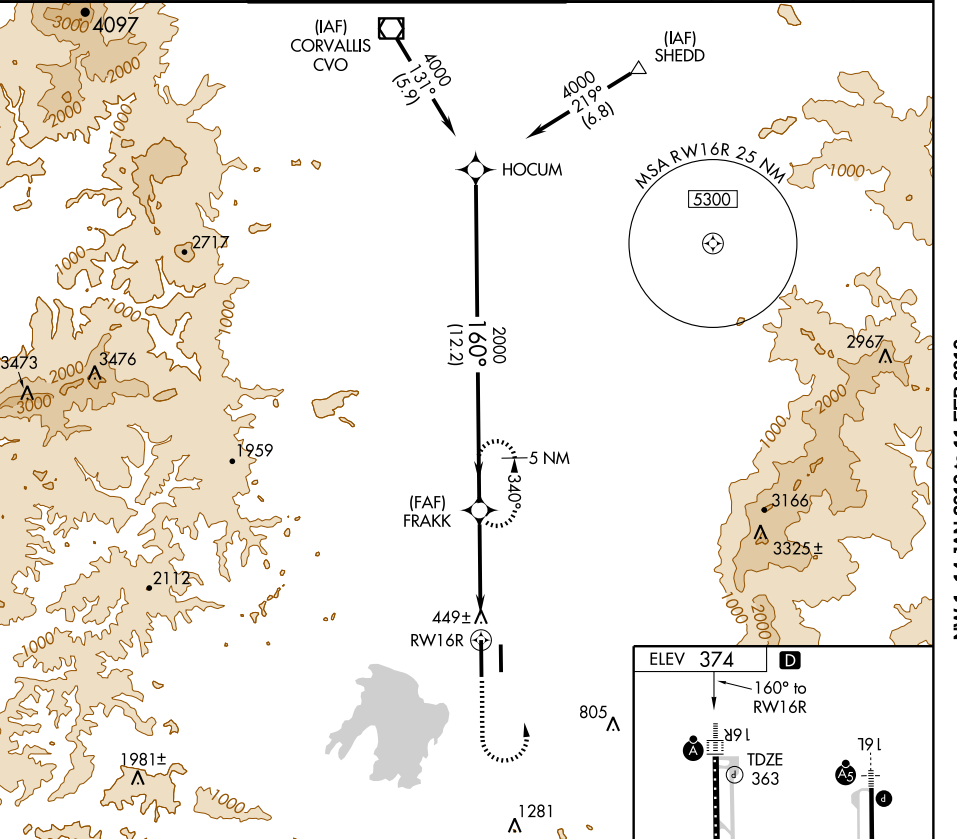
TAKE-OFF RUNWAYS 16L and 16R: Climb via heading 160° (or ATC assigned heading) for vectors to assigned route/fix

TAKE-OFF RUNWAYS 34L and 34R: Climb via heading 340° (or ATC assigned heading) for vectors to assigned route/fix

. . . . maintain 9000 or assigned altitude, expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If not in contact with ATC after reaching 3000', continue climb to assigned altitude direct EUG VORTAC, climb in EUG VORTAC holding pattern (hold N, RT, 175° inbound) to cross EUG VORTAC at or above MEA before proceeding enroute.

▼ NA Inoperative table does not apply to S-16R Cat D.		ALSF-2 ⬆ ⬆ ⬆	MISSED APPROACH: Climb to 1000 then climbing left turn to 2500 direct FRAKK WP and hold.		
ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95

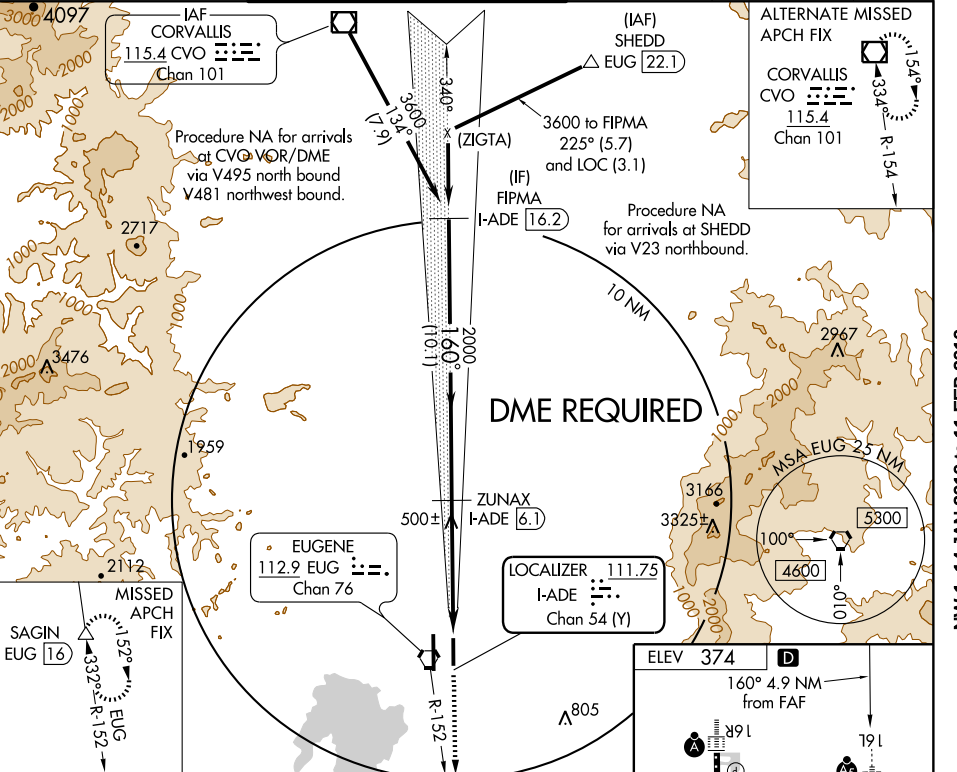


▲ If local altimeter setting not received, use Corvallis altimeter setting and increase all DAs 70 feet, and all MDAs 80 feet. VDP NA when using Corvallis altimeter setting.

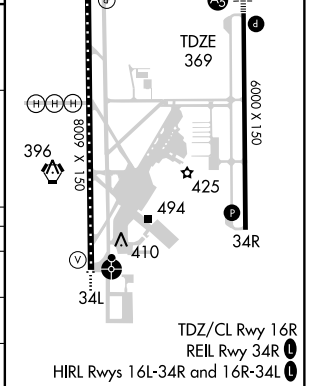
MALS R

MISSED APPROACH: Climb to 5200 via heading 160° and EUG VORTAC R-152 to SAGIN/EUG 16 DME and hold, continue climb-in-hold to 5200.

ATIS	CASCADE APP CON	EUGENE TOWER ★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



Procedure Turn NA	FIPMA I-ADE <u>16.2</u>		VGSi and ILS glidepath not coincident. Use I-ADE DME when on the localizer course.		5200 ↑ 160°	EUG R-152 <u>112.9</u>	SAGIN △
	3600		ZUNAX I-ADE <u>6.1</u>		I-ADE <u>2.4</u>	I-ADE <u>1.2</u>	
	GS 3.00° TCH 46		160°		160°		
	2000		10.1 NM		3.7 NM		
					1.2		
CATEGORY	A		B		C		D
S-ILS 16L			569-½		200 (200-½)		
S-LOC 16L	800-½		431 (500-½)		800-¾ 431 (500-¾)		800-1 431 (500-1)
CIRCLING	800-1 426 (500-1)		840-1 466 (500-1)		840-1½ 466 (500-1½)		940-2 566 (600-2)



LOC/DME F-EUG 110.1 Chan 38	APP CRS 160°	Rwy Idg 8009 TDZE 364 Apt Elev 374
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ILS or LOC/DME Z RWY 16R

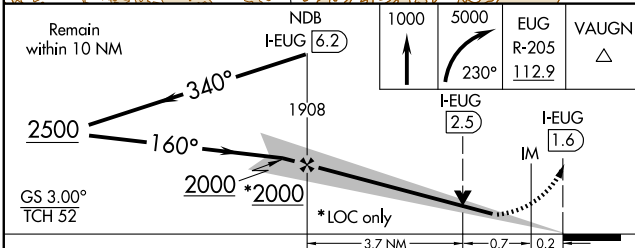
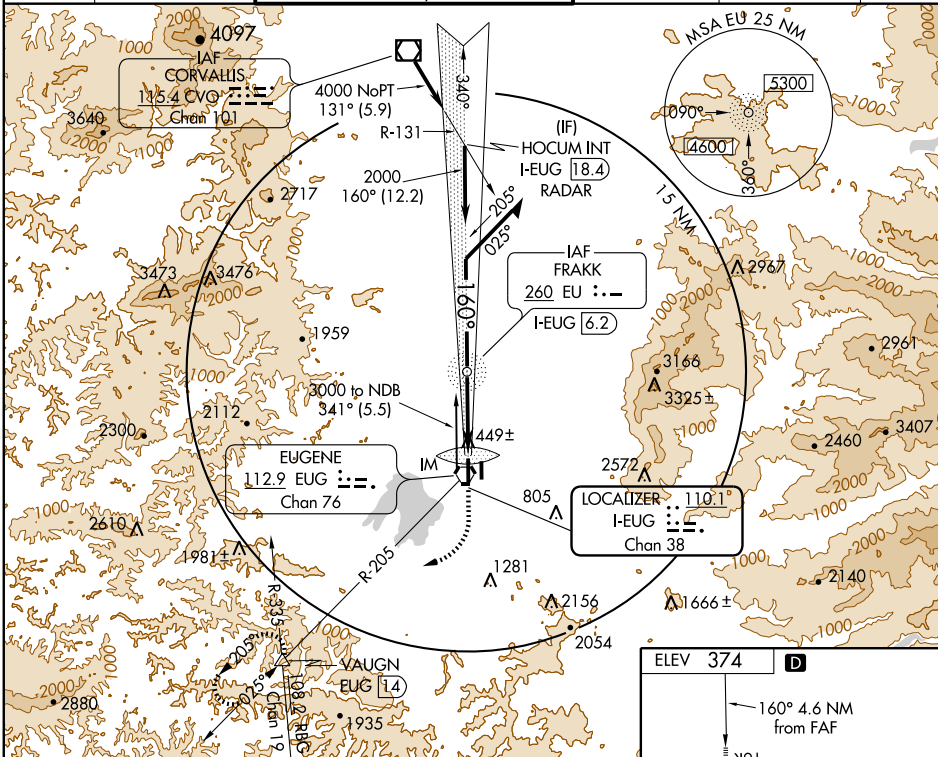
EUGENE/MAHLON SWEET FIELD (EUG)

- | | |
|----------|--|
| T | For inoperative ALSF-2: increase S-LOC 16R Cat D visibility to RVR 5000. |
| A | DME required. |

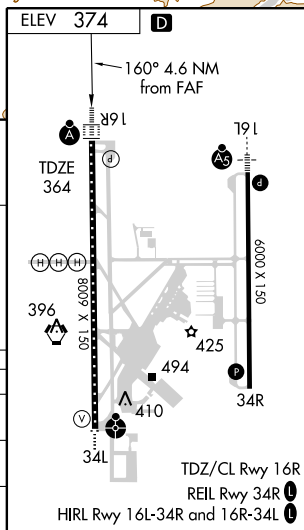


MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGN/ EUG 14 DME and hold, continue climb-in-hold to 5000.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 16R	564/18 200 (200-½)			
S-LOC 16R	700/24 336 (400-½)			700/40 336 (400-¾)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)

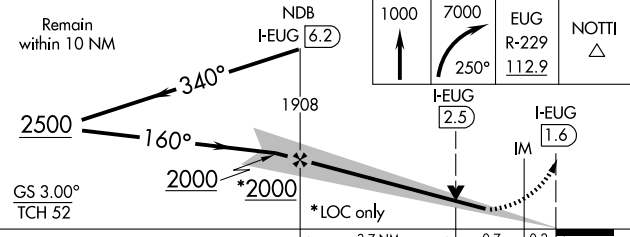
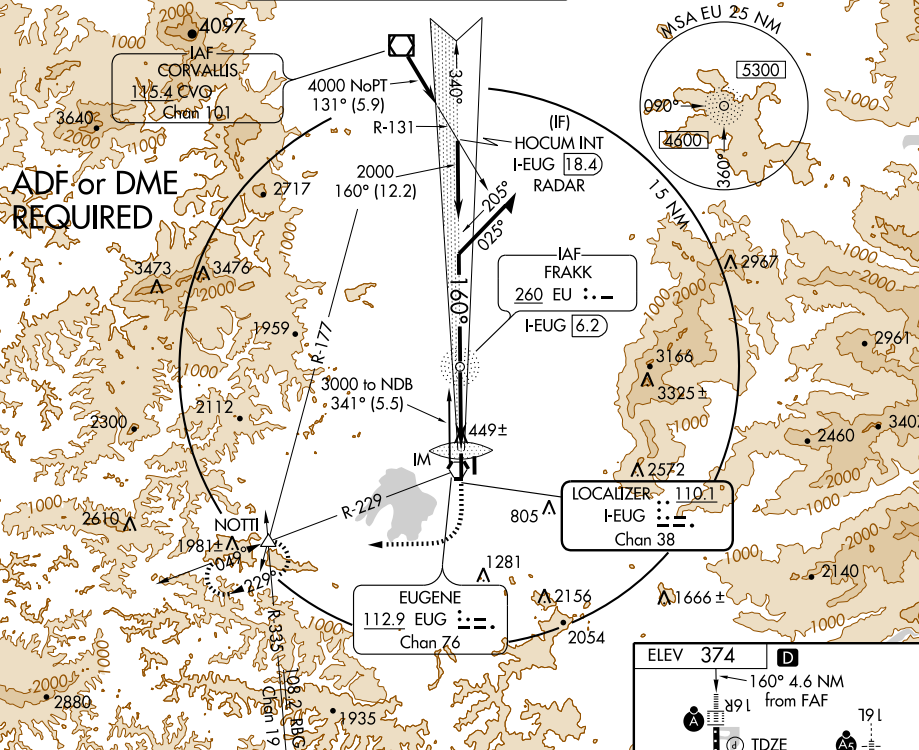


LOC/DME I-EUG	APP CRS	Rwy Idg	8009
110.1	160°	TDZE	364
Chan 38		Apt Elev	374

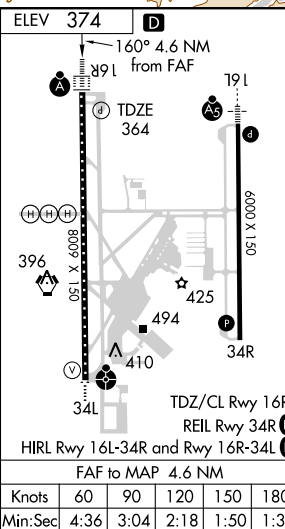
For inoperative ALSF-2: increase S-LOC 16R Cat D visibility to RVR 5000.

MISSED APPROACH: Climb to 1000 then climbing right turn to 7000 via heading 250° and EUG R-229 to NOTTI INT and hold, continue climb-in-hold to 7000.

ATIS	CASCADE APP CON	EUGENE TOWER ★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



CATEGORY	A	B	C	D
S-ILS 16R	564/18 200 (200-½)			
S-LOC 16R	700/24 336 (400-½)			700/40 336 (400-¾)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)



LOC/DME FEUG <u>110.1</u> Chan 38	APP CRS 160°	Rwy Idg 8009 TDZE 364 Apt Elev 374
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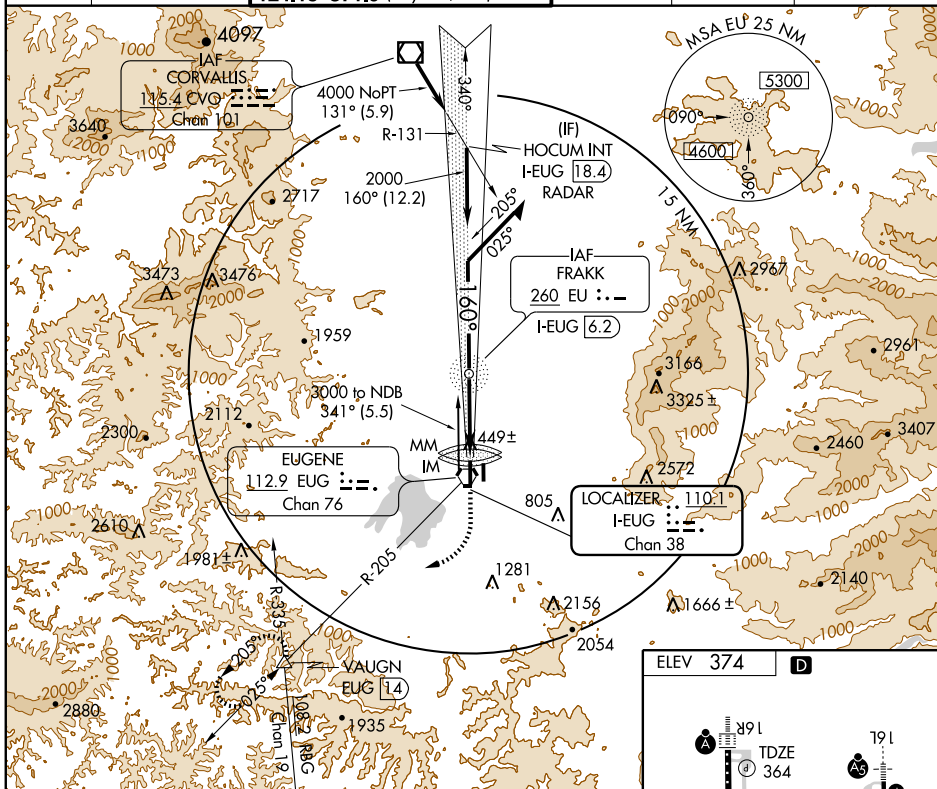
ILS RWY 16R (CAT II)
EUGENE/MAHLON SWEET FIELD (EUG)

T Cat II minimums not authorized when control tower closed.
A DME required.



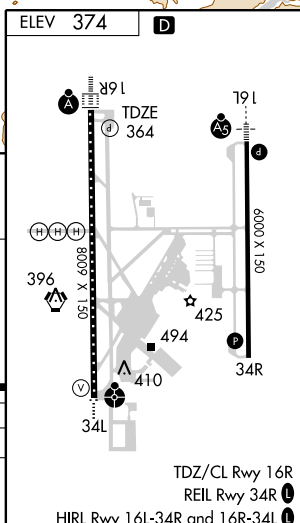
MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGN/ EUG 14 DME and hold, continue climb-in-hold to 5000.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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Remain within 10 NM	NDB I-EUG 6.2	1000 ↑	5000 ↘ 230°	EUG R-205 112.9	VAUGHN △
2500	340°	1908	DH	RA108	
160°	2000	MM	IM	364 MSL	
GS 3.00° TCH 52		4.2 NM	1517'	983'	950'
CATEGORY	A	B	C	D	
S-ILS 16R	RA 108/12 100 DA 464				

CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED



LOC/DME I-EUG <u>110.1</u> Chn 38	APP CRS 160°	Rwy Idg 8009 TDZE 364 Apt Elev 374
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ILS RWY 16R (CAT III)

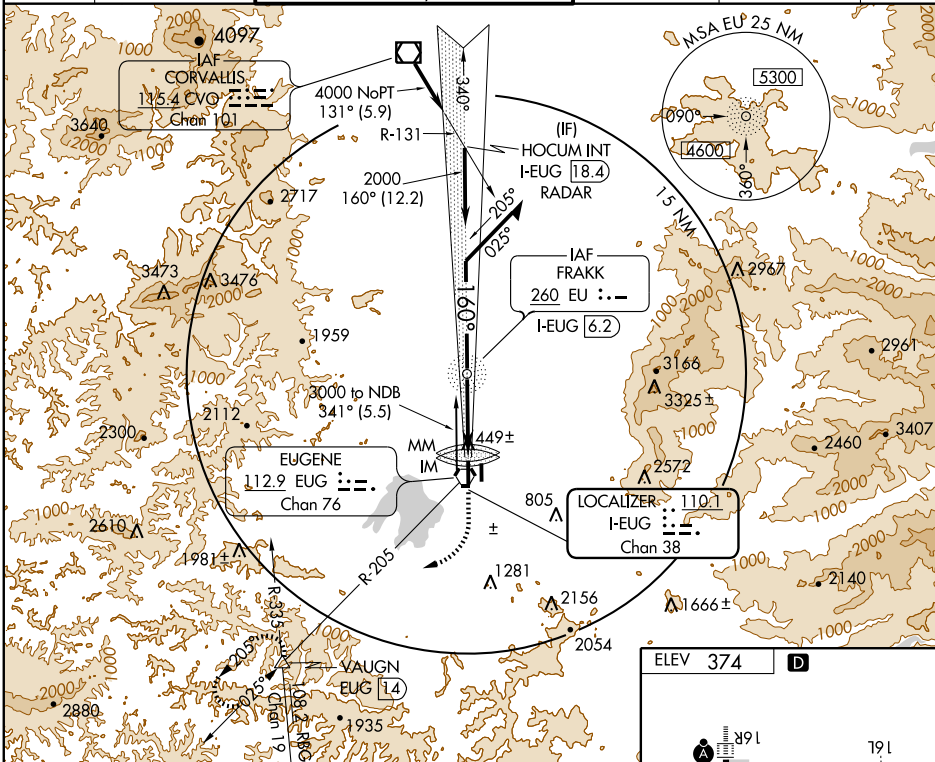
EUGENE/MAHLON SWEET FIELD (EUG)

T Cat III minimums not authorized when control tower closed.
A DME required.

ALSF-2

MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGN/ EUG 14 DME and hold, continue climb-in-hold to 5000.

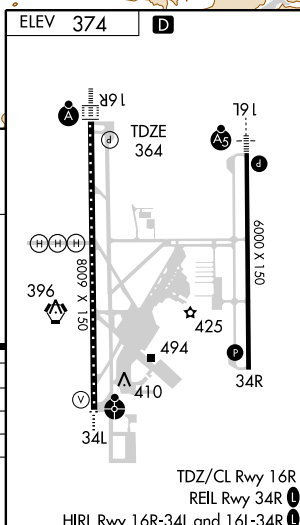
ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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NW-1. 14 JAN 2010 to 11 FEB 2010

Remain within 10 NM 2500 GS 3.00° TCH 52		NDB I-EUG 6.2 1908 2000		1000 	5000 	EUG R-205 112.9	VAUGHN
		340° 160°		MM 541	IM 459	364 MSL	
		4.2 NM		1570'	930'	950'	
CATEGORY	A	B	C	D			
S-ILS 16R	CAT IIIa		RVR 07				
S-ILS 16R	CAT IIIb		RVR 06				
S-ILS 16R	CAT IIIc		NA				

CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED



TDZ/CL Rwy 16R

REIL Rwy 34R **L**HIRL Rwy 16R-34L and 16L-34R **L**

WAAS
CH 81827
W16A

APP CRS
160°

Rwy Idg
TDZE 369
Apt Elev 374

RNAV (GPS) RWY 16L

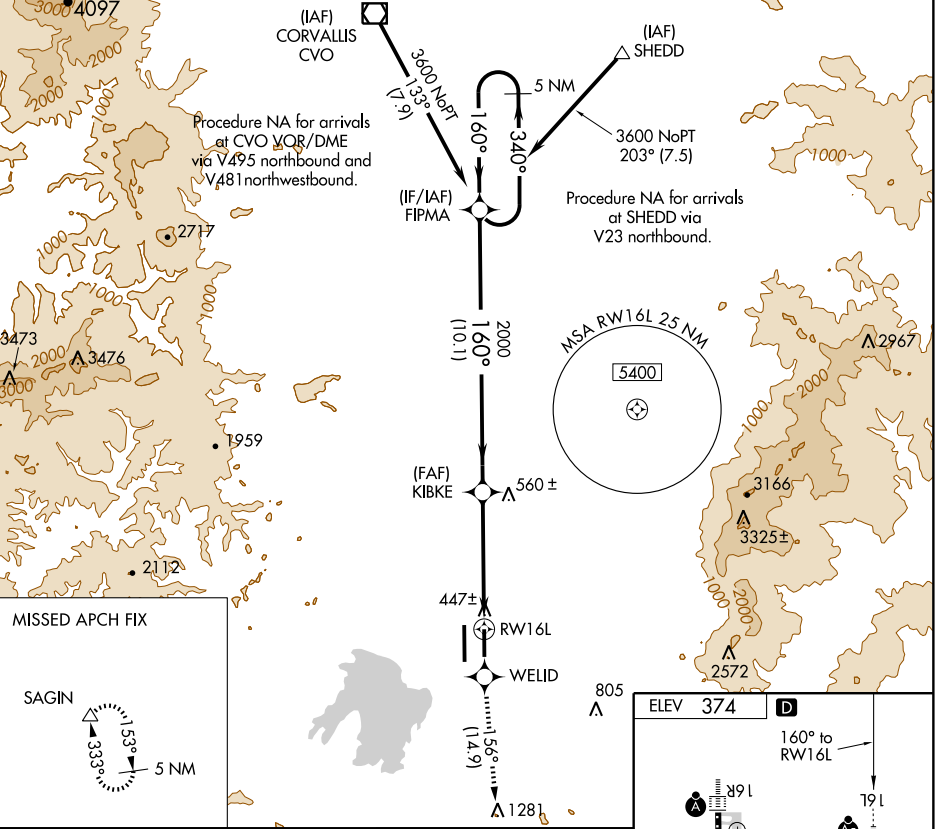
EUGENE/MAHLON SWEET FIELD (EUG)

DME/DME RNP-0.3 NA.
Baro-VNAV NA below -15°C (5°F).

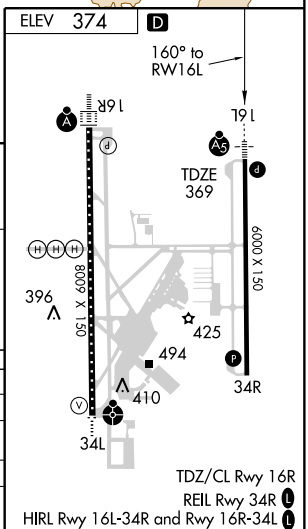
MALSR

MISSED APPROACH: Climb to 4000 direct WELID and via 156° track to SAGIN and hold, continue climb-in-hold to 4000.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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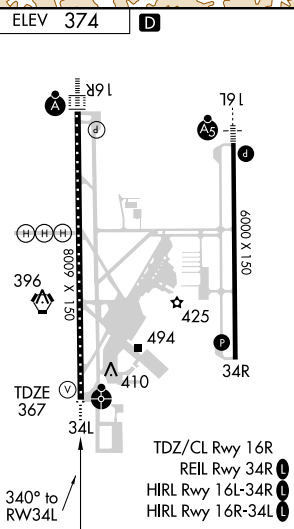
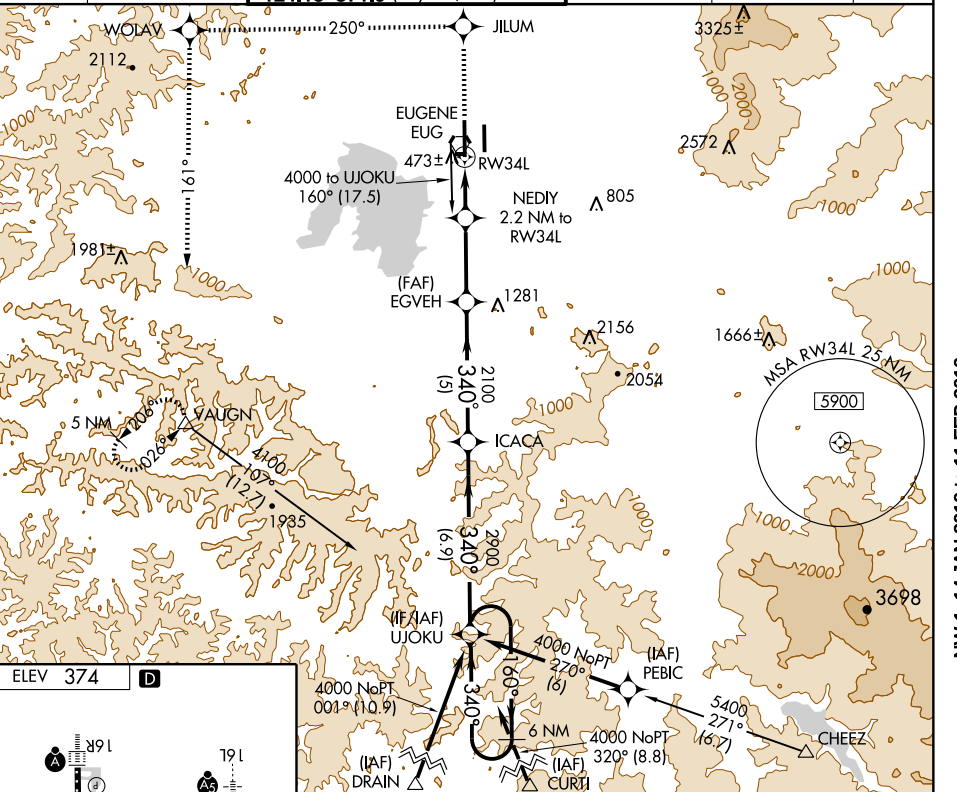


3600	340°	160°	160°	2000	10.1 NM	4 NM	0.9
GS 3.00°	TCH 52						
CATEGORY	A	B	C	D			
LPV DA		669-1	300 (300-1)				
LNAV/VNAV DA		715-1¼	346 (400-1¼)				
LNAV MDA		700-1	331 (400-1)				
CIRCLING	800-1¼ 426 (500-1¼)	840-1¼ 466 (500-1¼)	840-1½ 466 (500-1½)	940-2 566 (600-2)			



NW-1. 14 JAN 2010 to 11 FEB 2010

▼ Inoperative table does not apply to LPV and LNAV/VNAV. Baro-VNAV NA below -15°C (5°F). DME/DME RNP-0.3 NA.		ODALS	MISSED APPROACH: Climb to 4000 direct JILUM and via 250° track to WOLAV and 161° track to VAUGHN and hold.		
ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95



4000 JILUM		250° track		WOLAV		161° track		VAUGN		ICACA		UJOKU		6 NM Holding Pattern	
*LNAV only		NEDIY		EGVEH											
RW 34L		*1.1 NM to RW34L		2.2 NM to RW34L				340°		2900		160°		4000	
1.1 NM		1.1 NM		3 NM		5 NM		6.9 NM						GS 3.00° TCH 54	
CATEGORY		A		B		C		D							
LPV DA		617/40		250 (300-¾)											
LNAV/VNAV DA		744/60		377 (400-1¼)											
LNAV MDA		760/40		393 (400-¾)								760/60		393 (400-1¼)	
CIRCLING		800-1¼		840-1¼		840-1½						940-2			
		426 (500-1¼)		466 (500-1¼)		466 (500-1½)						566 (600-2)			

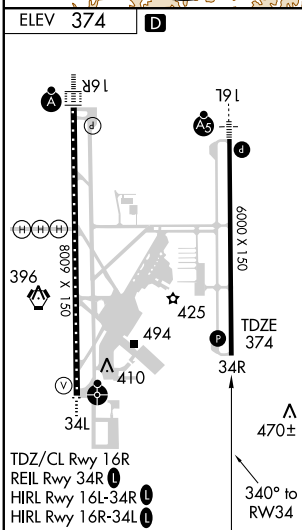
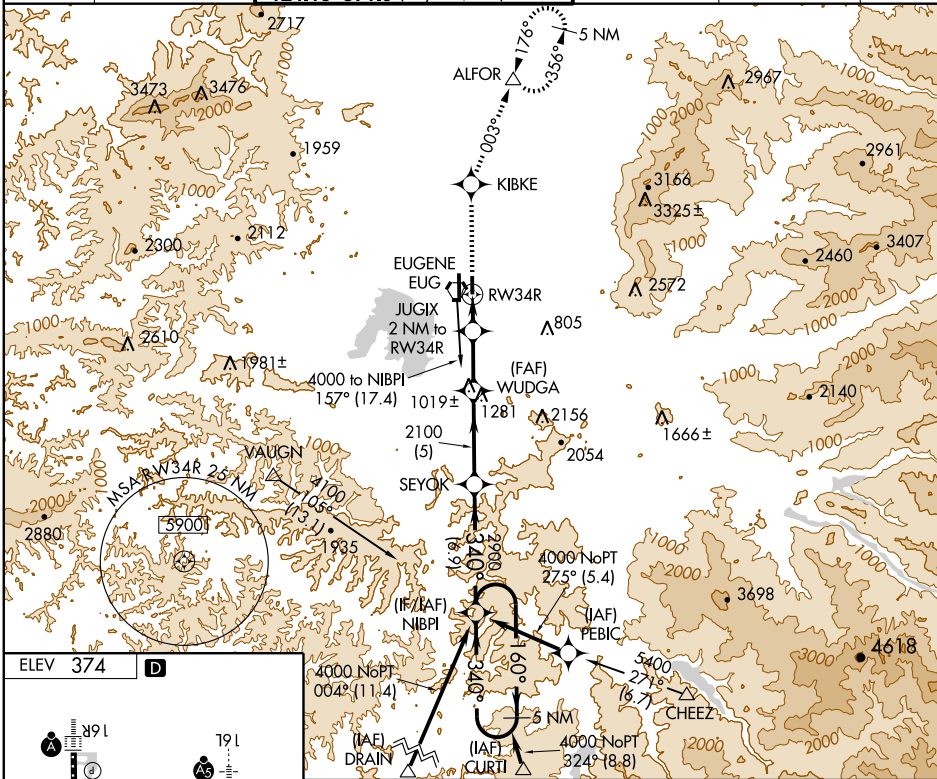
WAAS CH 81900 W34B	APP CRS 340°	Rwy Idg 6000 TDZE 374 Apt Elev 374
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RNAV (GPS) RWY 34R
EUGENE/MAHLON SWEET FIELD (EUG)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
A DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct KIBKE and via track 003° to ALFOR and hold.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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3000 ↑	KIBKE ✦	trk 003°	ALFOR △		SEYOK	NIBPI	5 NM Holding Pattern
*LNAV only	JUGIX 2 NM to RW34R	WUDGA	340° 2900	160° ← 340°	4000	GS 3.00° TCH 50	
RW 34R	1.1 NM to RW34R	1060*	2100				
1.1 NM	0.9 NM	3.2 NM	5 NM	6.9 NM			
CATEGORY	A	B	C	D			
LPV DA	658-1	284 (300-1)					
LNAV/ VNAV	796-1½	422 (500-1½)					
LNAV MDA	760-1	386 (400-1)					
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 [600-2]			

VORTAC EUG 112.9 Chan 76	APP CRS 168°	Rwy Idg 8009 TDZE 363 Apt Elev 374
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VOR/DME or TACAN RWY 16R

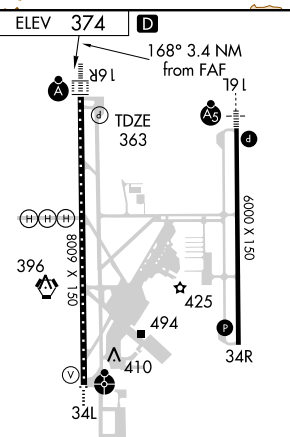
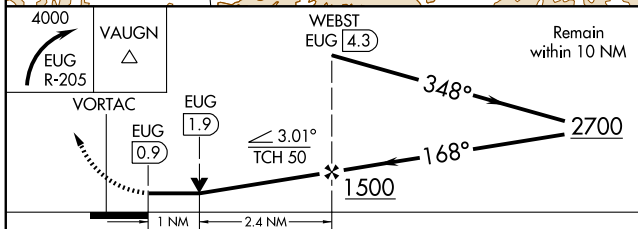
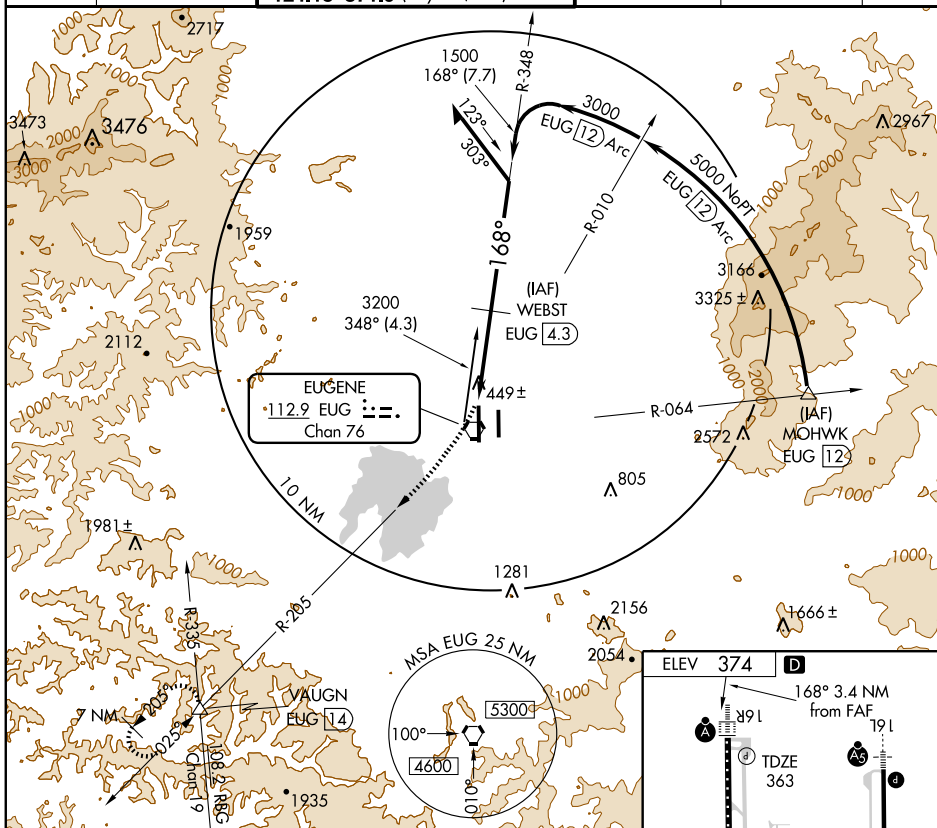
EUGENE/MAHLON SWEET FIELD (EUG)

T For inoperative MALS, increase S-16R Cat D visibility to RVR 6000.



MISSED APPROACH: Climbing right turn to 4000 via EUG R-205 to VAUGN/14 DME and hold.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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CATEGORY	A	B	C	D
S-16R	720/24 357 (400-½)			720/50 357 (400-1)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)

TDZ/CL Rwy 16R
REIL Rwy 34R **L**
HIRL Rwy 16L-34R and Rwy 16R-34L **L**

VORTAC EUG 112.9 Chan 76	APP CRS 332°	Rwy Idg TDZE Apt Elev	8009 367 374
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VOR/DME or TACAN RWY 34L

EUGENE/MAHLON SWEET FIELD (EUG)

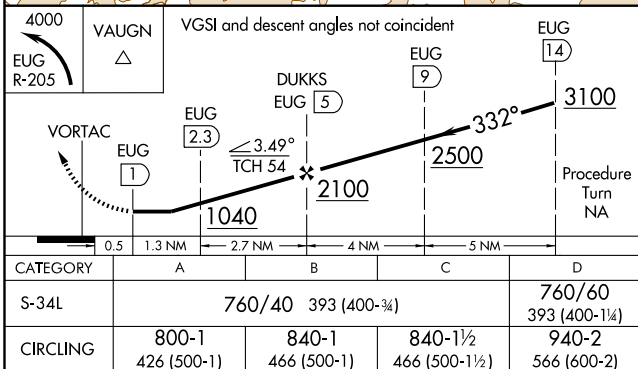
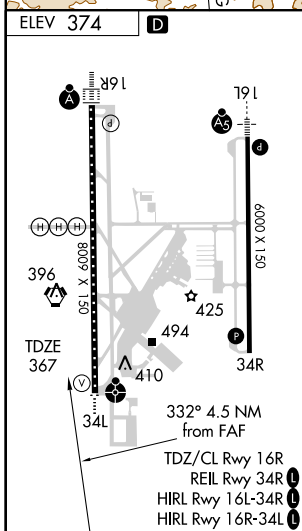
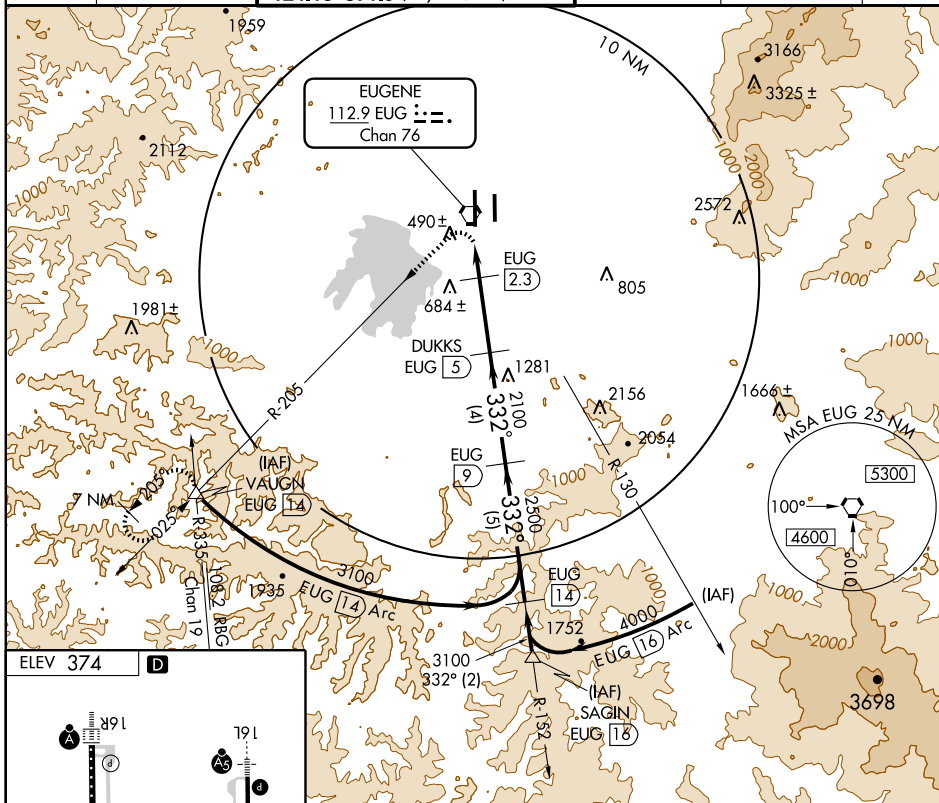


ODALS



MISSED APPROACH: Climbing left turn to 4000 via EUG R-205 to VAUGN/14 DME and hold.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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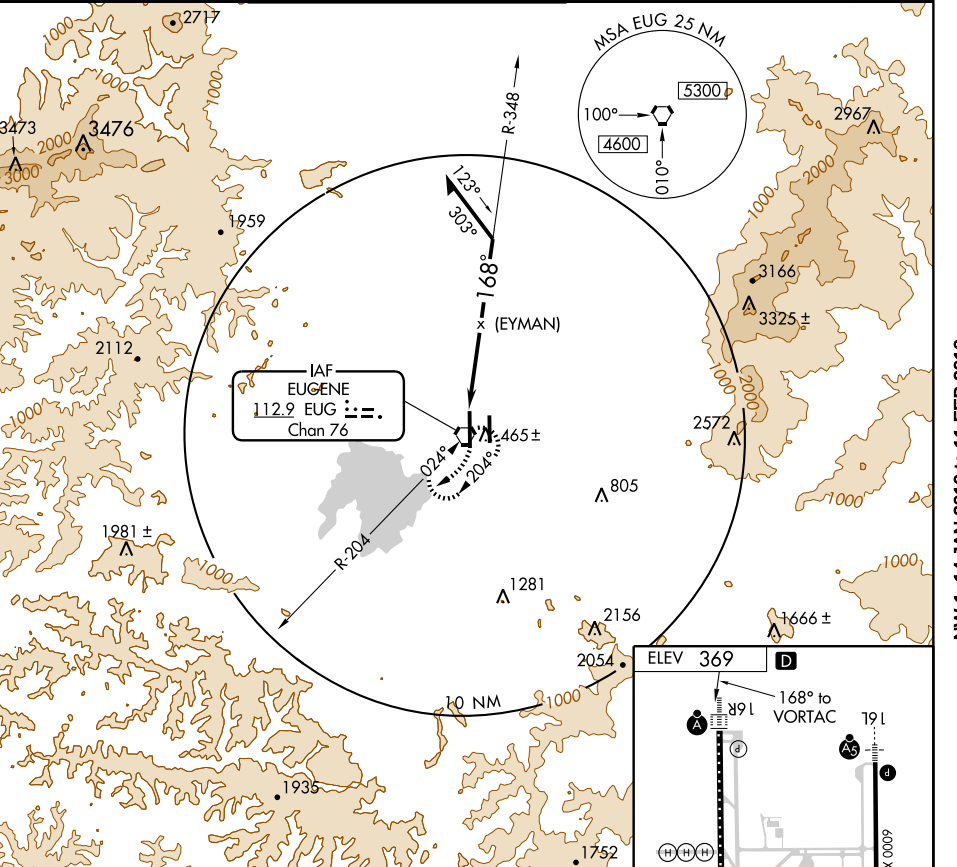


▼

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MISSED APPROACH: Climbing right turn to 4000 via EUG R-204, then direct EUG VORTAC and hold.

ATIS	CASCADE APP CON	EUGENE TOWER★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



EUG R-204

EUG

VORTAC

Remain within 10 NM

348°

168°

2700

410

425

494

34R

34L

396

800' X 150

6000 X 150

168° to VORTAC

19L

CATEGORY

A

B

C

D

CIRCLING

1200-1
831 (900-1)

1200-1¼
831 (900-1¼)

1200-2½
831 (900-2½)

1200-2¾
831 (900-2¾)

TDZ/CL Rwy 16R

REIL Rwy 34R

HIRL Rwy 16L-34R and Rwy 16R-34L

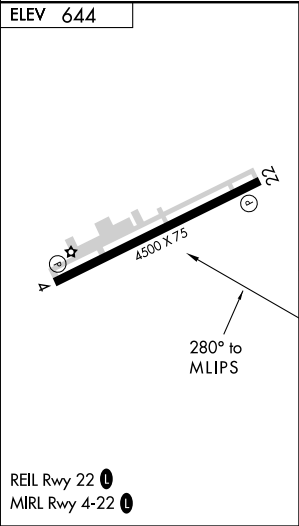
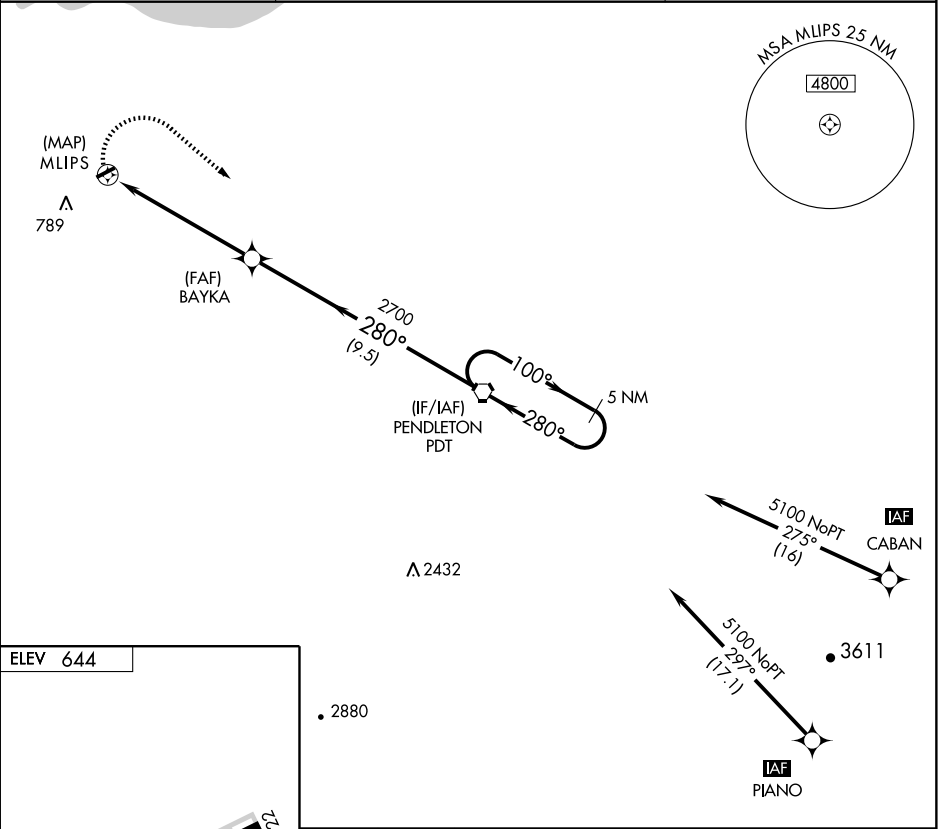
NW-1. 14 JAN 2010 to 11 FEB 2010

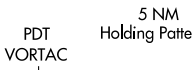
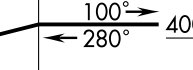
RNAV(GPS)-B
HERMISTON MUNI (HRI)

APP CRS 280°	Rwy Idg TDZE Apt Elev	N/A N/A 644
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GPS or RNP-0.3 Required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climbing right turn to 4000 direct PDT VORTAC and hold.
NA IAF ARM APPROACH MODE PRIOR TO IAF.	

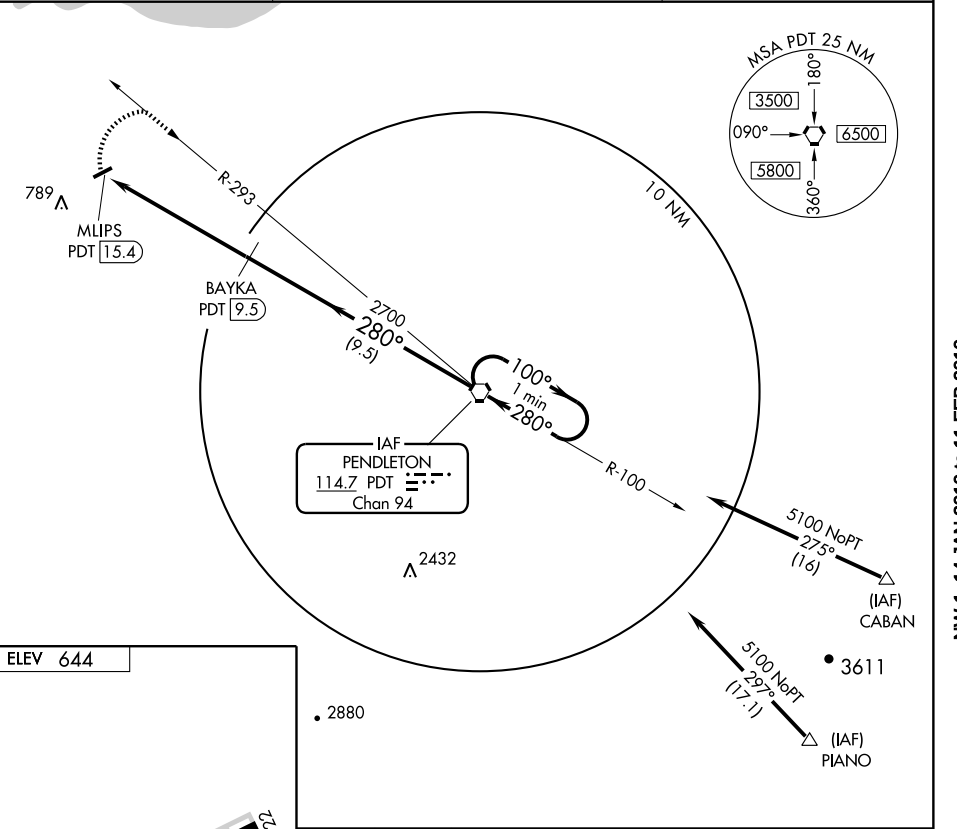
ASOS 135.225	CHINOOK APP CON ★ 133.15 379.15	UNICOM 122.8 (CTAF) 0
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MLIPS		BAYKA	PDT VORTAC		
					
5.9 NM		9.5 NM		100° ← 280°	
CATEGORY	A	B	C	D	
CIRCLING	1180-1 536 (600-1)		1180-1½ 536 (600-1½)	1200-2 556 (600-2)	

MISSED APPROACH: Climbing right turn to 4000 via PDT R-293 to PDT VORTAC and hold.

ASOS 135.225	CHINOOK APP CON ★ 133.15 379.15	UNICOM 122.8 (CTAF) 0
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ELEV 644

4000
PDT R-293

PDT 114.7

One Minute Holding Pattern

VORTAC

BAYKA PDT 9.5

MLIPS PDT 15.4

2700

280° 5.9 NM from FAF

4000

100° 280°

5.9 NM

9.5 NM

CATEGORY A B C D

CIRCLING 1180-1 536 (600-1) 1180-1½ 536 (600-1½) 1200-2 556 (600-2)

APP CRS	Rwy Idg	4471
083°	TDZE	3669
	Apt Elev	3703

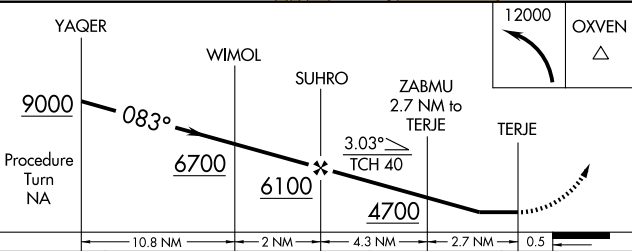
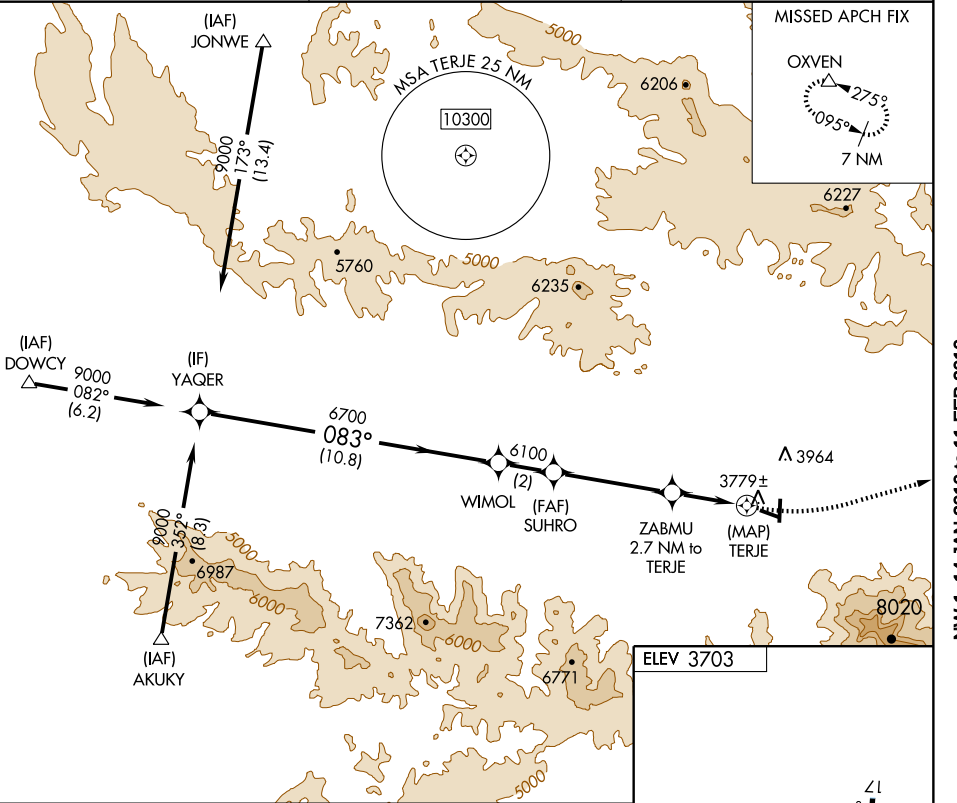
▼

▲

When local altimeter setting not received, procedure NA.
Circling NA south of Rwy 9-27. DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 12000 direct
OXVEN and hold, continue climb-in-hold to 12000.

AWOS-3 118.375	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNNAV MDA	4280-1 577 (600-1)	611 (600-1)	4280-1 3/4 611 (600-1 3/4)	NA
CIRCLING	4280-1 577 (600-1)	4520-1 1/4 817 (900-1 1/4)	4520-2 1/2 817 (900-2 1/2)	NA

ELEV 3703

12000

OXVEN

TDZE 3669

4471 X 60

5220 X 60

3707

35

REIL Rwy 17 0
MRL Rwy 17-35 0
LIRL Rwy 9-27 0

When local altimeter setting not received, procedure NA.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 12000 direct YERPU then via 057° track to OXVEN and hold, continue climb-in-hold to 12000.

AWOS-3 118.375	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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Procedure Turn NA
GS 3.40°
TCH 54

VEUCUC

8000

090°

6800

UDEYI

6300

JUVUL

091°

6300

(WIXOX)

4.1 NM

2 NM

7.1 NM

12000

YERPU

057° trk

OXVEN

091°

1.1 % UP

4471 X 60

TDZE 3669

5220 X 60

0.5 % UP

3707

35

27

CATEGORY

A

B

C

D

LPV DA

4269-2 600 (600-2)

NA

REIL Rwy 17 0

MIRL Rwy 17-35 0

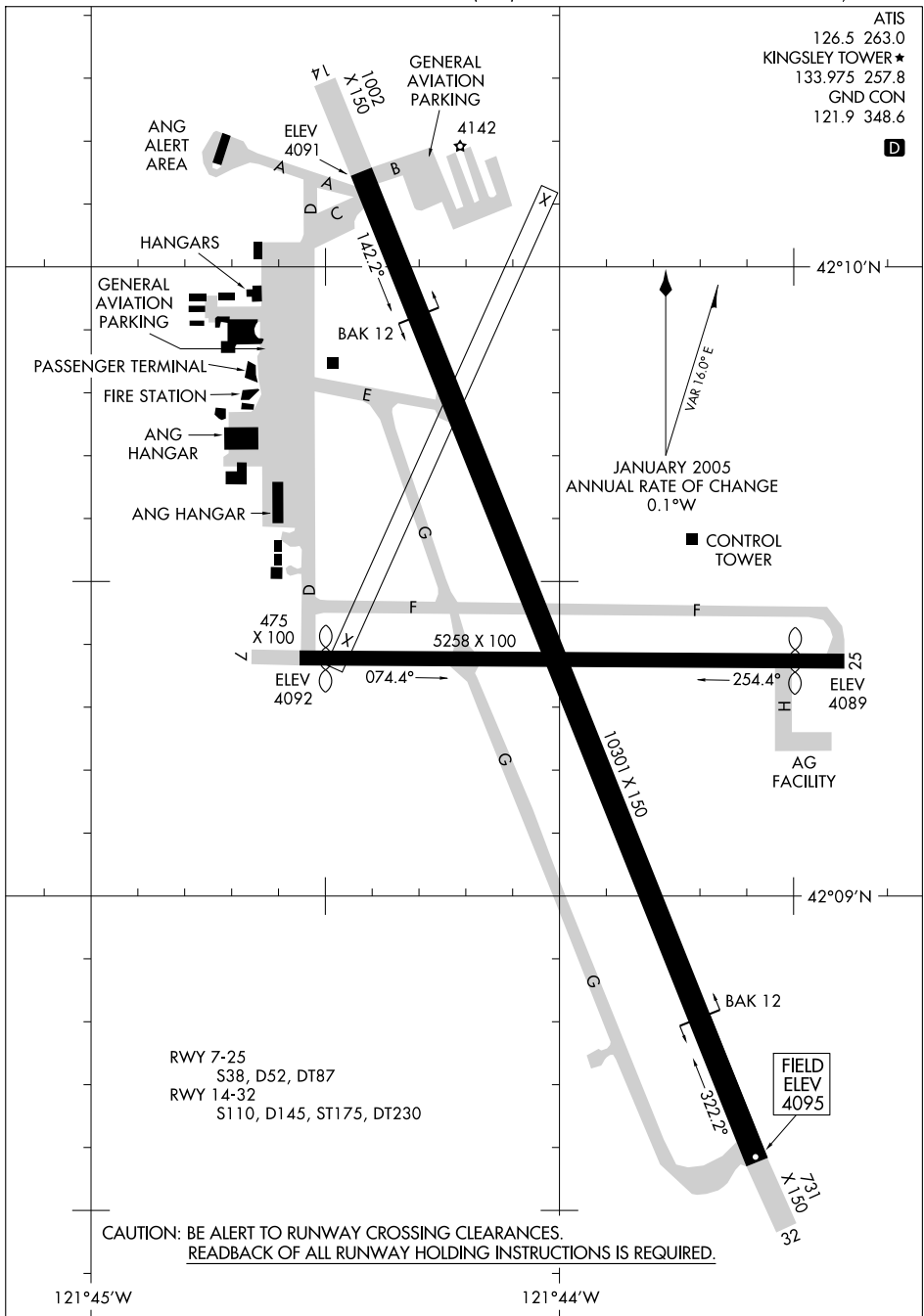
URL Rwy 9-27 0

NW-1. 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-473 (FAA)

KLAMATH FALLS, OREGON



ATIS
126.5 263.0
KINGSLEY TOWER ★
133.975 257.8
GND CON
121.9 348.6

D

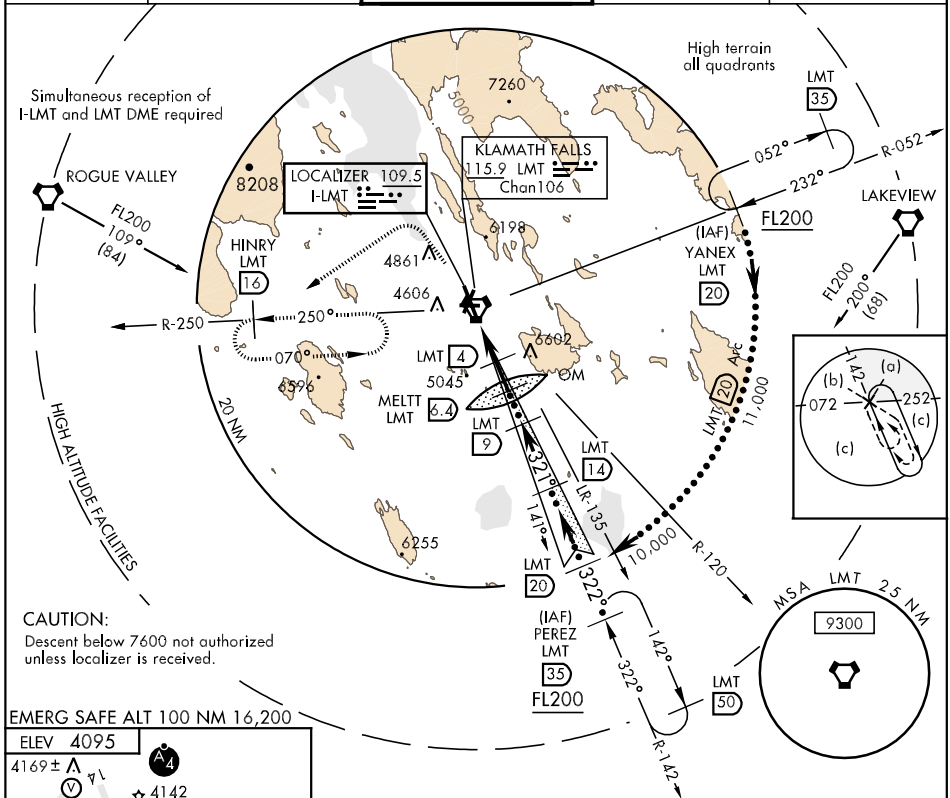
VAR 16.0°E

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

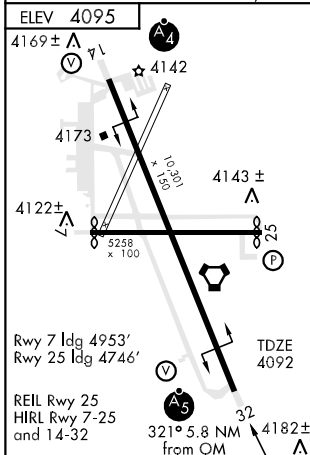
CONTROL
TOWER

NW-1, 14 JAN 2010 to 11 FEB 2010

LOC I-LMT 109.5	APCH CRS 321°	Rwy Idg 10,301 TDZE 4092 Arpt Elev 4095	JAL-473 [USAF]	KLAMATH FALLS (KINGSLEY FIELD) (KLMT)
T	MALSR A5	MISSED APPROACH: Climb to 5300 heading 307° then climbing left turn to 11,000 via heading 220° to intercept LMT VORTAC R-250 to HINRY/16 DME and hold.		
ATIS ★ 126.5 263.0	KINGSLEY APP CON 123.675 270.8	KINGSLEY TOWER ★ 133.975 CTAF 0 257.8	GND CON 121.9 348.6	ASOS



EMERG SAFE ALT 100 NM 16,200



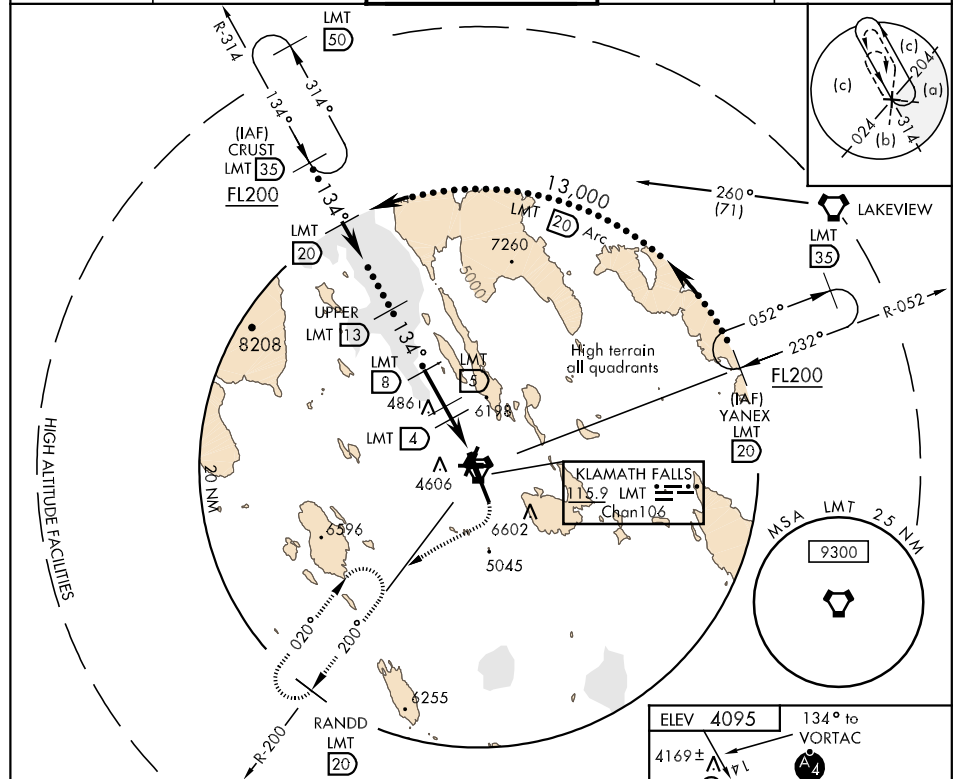
5300 hdg 307°	11,000 hdg 220°	HINRY LMT R-250 16	Intcp Lczz 14	R-142 20
VORTAC 0.6	MELTT OM 6.4	6038 6100 LOC	6600 LOC	7600 7100
5200 LOC	3.4 NM	2.4 NM	10,000	GS 3.00° TCH 55
CATEGORY	C	D	E	
S-ILS 32	4292/24	200	(200-½)	
S-LOC 32	4500/40	408 (500-¾)	4500/50 408 (500-1)	

VORTAC LMT 115.9 Chan 106	APCH CRS 134°	Rwy Idg 10,301 TDZE 4088 Arpt Elev 4095
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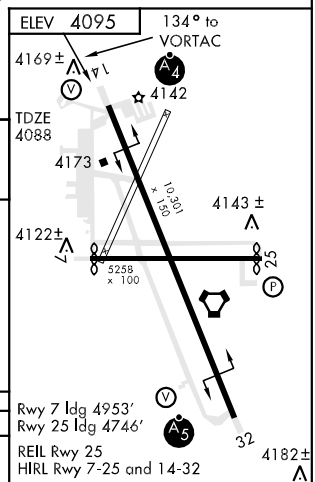
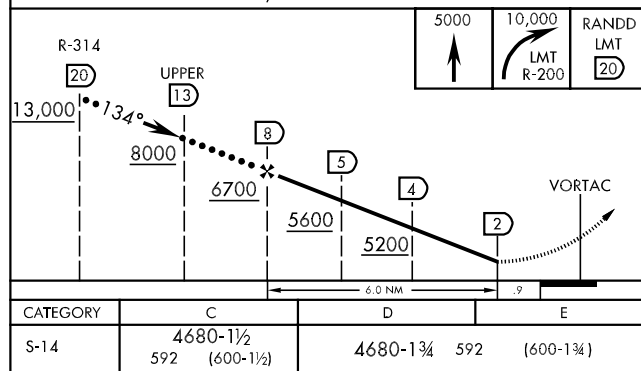
JAL-473 [USAF]

KLAMATH FALLS (KINGSLEY FIELD) (KLMT)

ATIS ★ 126.5 263.0	KINGSLEY APP CON 123.675 270.8	KINGSLEY TOWER ★ 133.975 CTAF 0 257.8	GND CON 121.9 348.6	ASOS
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EMERG SAFE ALT 100 NM 16,200



VORTAC LMT 115.9 Chn 106	APCH CRS 328°	Rwy Idg 10,301 TDZE 4095 Arpt Elev 4095
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JAL-473 [USAF]

KLAMATH FALLS (KINGSLEY FIELD) (KLMT)

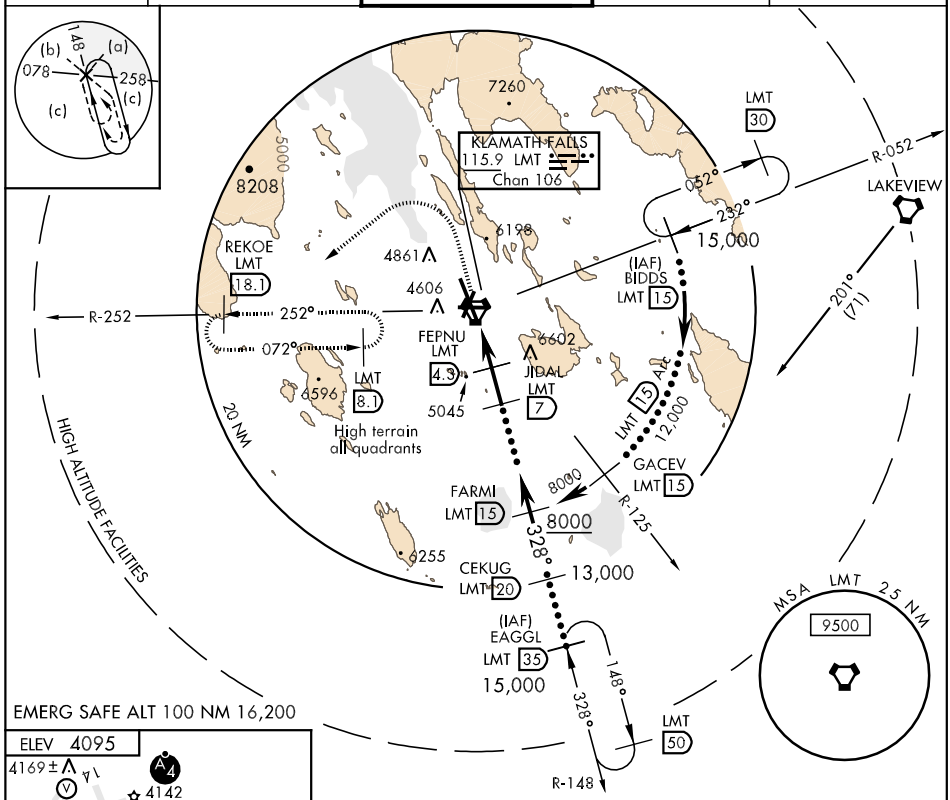
T

When ALS inop, increase CAT CDE vis ¼ mile.

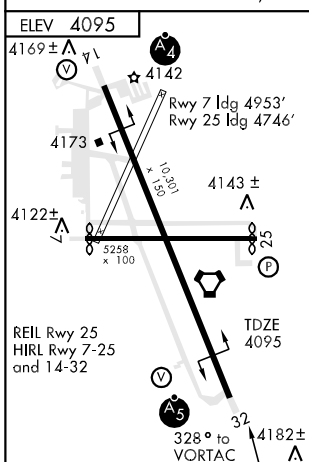


MISSED APPROACH: Climb to 5000 then climbing left turn to 10,000 to intercept LMT VORTAC R-252 to REKOE/LMT 8.1 DME and hold, continue climb in hold to 10,000.

ATIS ★ 126.5 263.0	KINGSLEY APP CON 123.675 270.8	KINGSLEY TOWER ★ 133.975 CTAF 0 257.8	GND CON 121.9 348.6	ASOS
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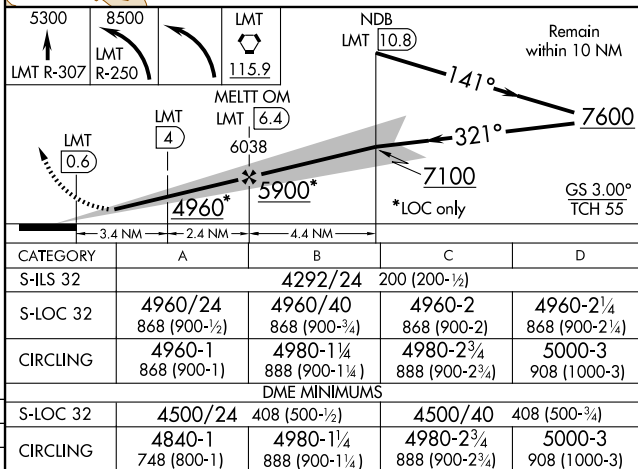
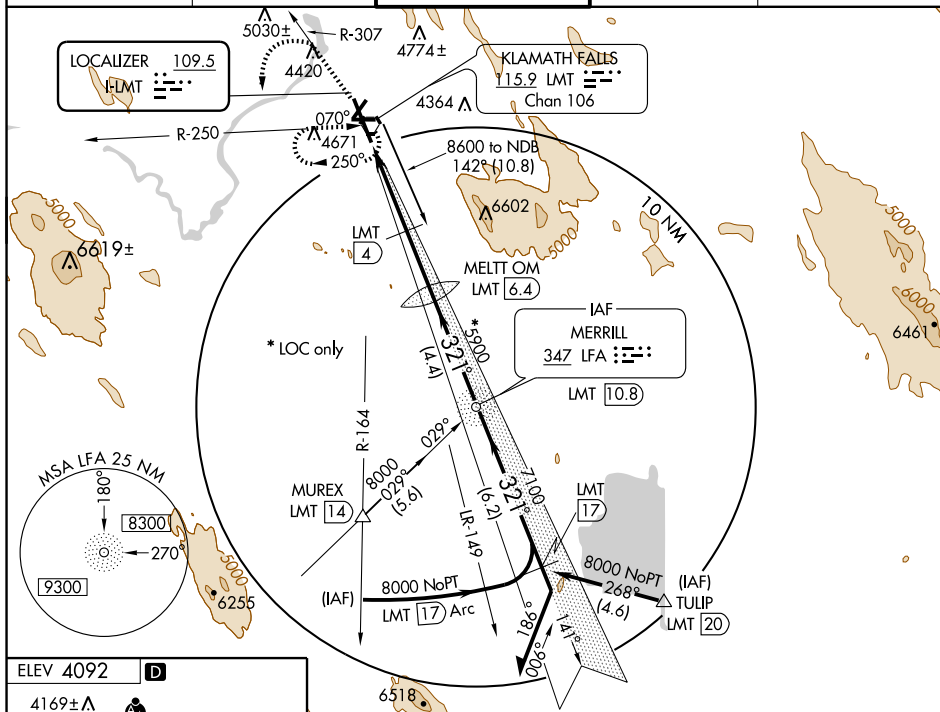
EMERG SAFE ALT 100 NM 16,200

[illegible]

ILS or LOC RWY 32

MALSR

MISSED APPROACH: Climb to 5300 via LMT R-307 then climbing left turn westbound to 8500 via LMT R-250, then left turn direct LMT VORTAC and hold.

UNICOM
122.95

KINGSLEY THREE DEPARTURE

SL-473 (FAA)

KLAMATH FALLS (LMT)
KLAMATH FALLS, OREGON

ATIS

126.5 263.0

GND CON

121.9 348.6

KINGSLEY TOWER ★

133.975 257.8

KINGSLEY DEP CON ★

123.675 270.8

EUGENE

112.9 EUG

Chan 76

N44°07.25'-W123°13.37'

L-1, H-1

DESCHUTES

117.6 DSD

Chan 123

N44°15.17'-W121°18.21'

L-13, H-1

ROSEBURG

108.2 RBG

Chan 19

N43°10.95'-W123°21.14'

L-1, H-1

ROGUE VALLEY

113.6 OED

Chan 83

N42°28.78'-W122°54.78'

L-2, H-3

FORT JONES

109.6 FJS

Chan 33

N41°26.98'-W122°48.39'

L-2

10000 or
assigned altitude

LAKEVIEW

112.0 LKV

Chan 57

N42°29.57'-W120°30.43'

L-11, H-3

KLAMATH FALLS

115.9 LMT

Chan 106

N42°09.19'-W121°43.65'

L-2, H-3

10000 or
assigned altitude

RED BLUFF

115.7 RBL

Chan 104

N40°05.93'-W122°14.18'

L-2, H-3

MUSTANG

117.9 FMG

Chan 126

N39°31.88'-W119°39.37'

L-9, H-3

NOTE: Chart not to scale.

NOTE: This SID requires a minimum climb of 325' per NM to 8500' or 4500' ceiling and 3 mile visibility to clear obstruction. (813 FPM at 150K, 1083 FPM 200K, 1354 FPM at 250K).

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 14 and 32: Climb via runway heading until leaving 4700'. Then via radar vector headings to assigned route.

LOST COMMUNICATIONS

If not in contact with Seattle Center after reaching 10000' or assigned altitude, if lower; continue climb to assigned altitude and:

Take-off runway 14: Climbing right turn direct LMT VORTAC, thence via (assigned route).

Take-off runway 32: Climbing left turn direct LMT VORTAC, thence via (assigned route).

RNAV (GPS) RWY 14

KLAMATH FALLS (LMT)

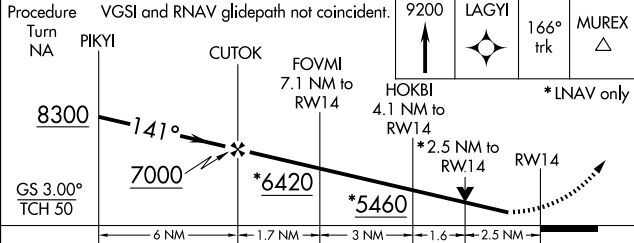
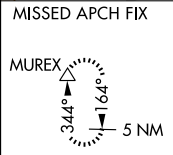
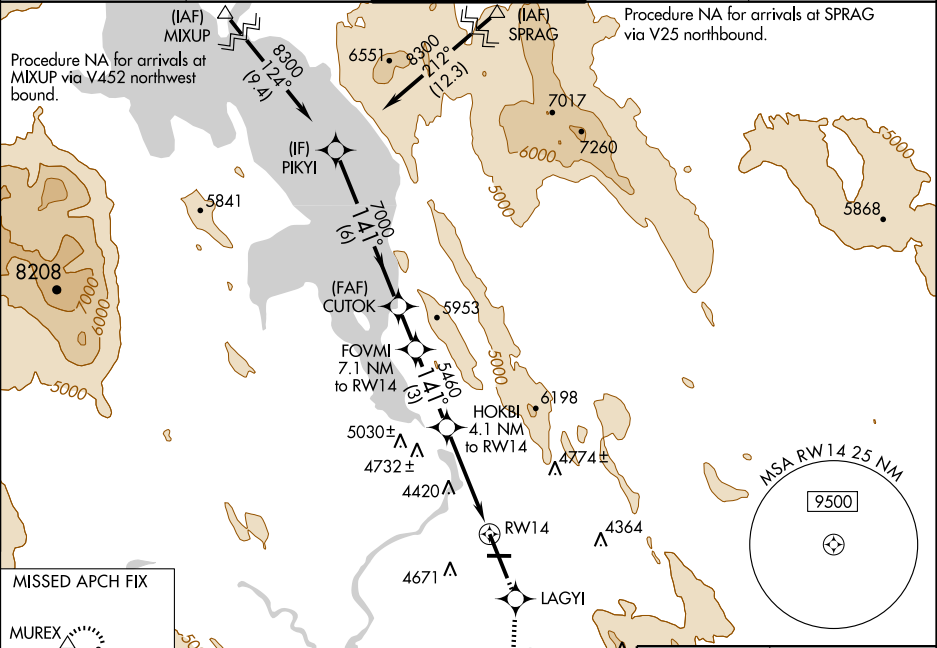
WAAS CH 58001 W14A	APP CRS 141°	Rwy Idg 10301 TDZE 4091 Apt Elev 4095
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⚠ DME/DME RNP-0.3 NA.
⚠ Inoperative table does not apply to LPV all Cats, and LNAV Cats B, C and D.
ASR/PAR Visibility reduction by helicopters NA.

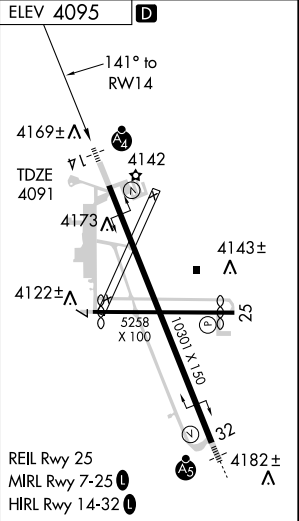
MALSF

MISSED APPROACH: Climb to 9200 direct LAGYI and via 166° track to MUREX and hold, continue climb-in-hold to 9200.

ATIS 126.5 263.0	KINGSLEY APP CON * 123.675 270.8	KINGSLEY TOWER * 133.975 (CTAF) 0 257.8	GND CON 121.9 348.6	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	4635-2 544 (600-2)			
LNAV/VNAV DA	NA			
LNAV MDA	4920-3/4 829 (900-3/4)	4920-1 1/4 829 (900-1 1/4)	4920-2 1/2 829 (900-2 1/2)	4920-2 3/4 829 (900-2 3/4)
CIRCLING	4920-2 825 (900-2)	4980-2 885 (900-2)	4980-2 3/4 885 (900-2 3/4)	5060-3 965 (1000-3)



VORTAC LMT <u>115.9</u> Chan 106	APP CRS 134°	Rwy Idg 10301 TDZE 4091 Apt Elev 4095
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VOR/DME or TACAN RWY 14

KLAMATH FALLS (LMT)

T	Cat E circling NA northeast of Rwy 14-32.
A	For inoperative MALSF increase S-14 Cat E visibility to 2 ³ / ₄ , inoperative table does not apply to Cats B, C, and D.
ASR/PAR	Visibility reduction by helicopters NA.

MALSF



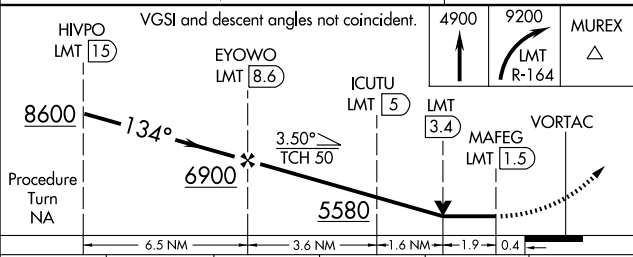
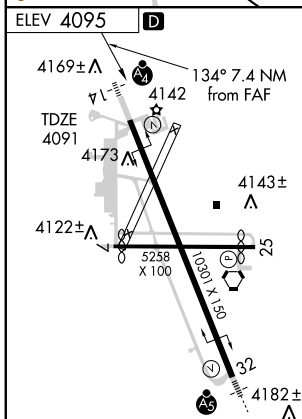
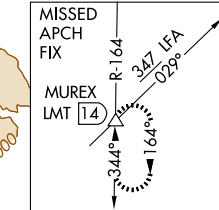
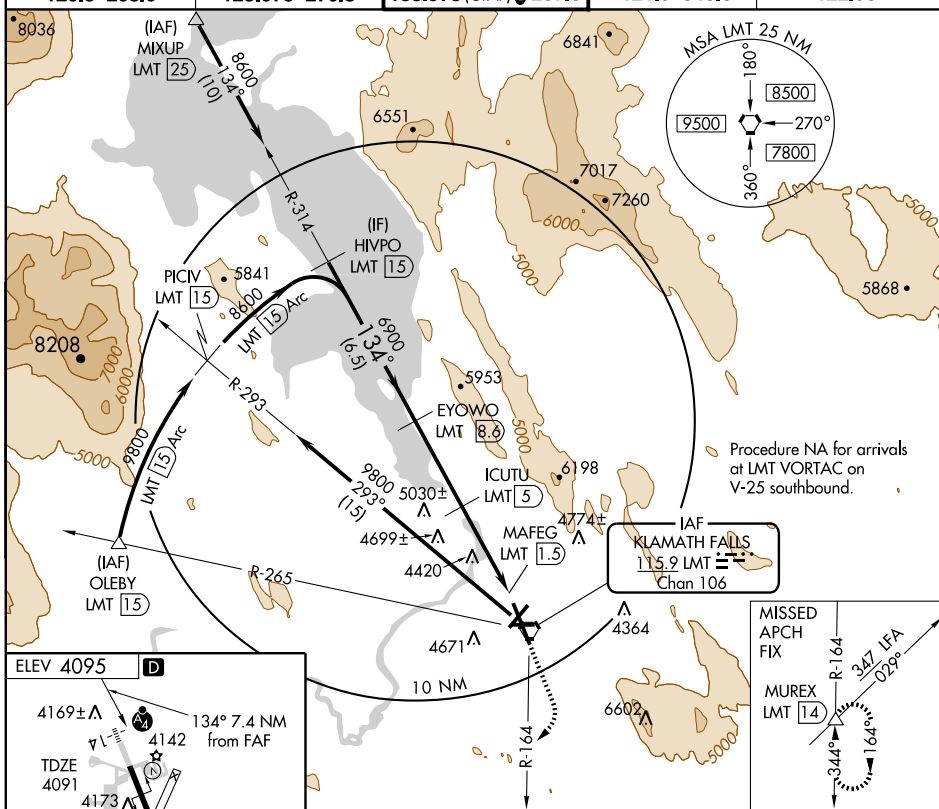
MISSED APPROACH: Climb to 4900 then climbing right turn to 9200 via LMT R-164 to MUREX/14 DME and hold, continue climb-in-hold to 9200.

ATIS
126.5 263.0

KINGSLEY APP CON ★
123.675 270.8

KINGSLEY TOWER★
133.975 (CTAF) 257.8

GND CON
21.9 348.6

UNICOM
122.95

CATEGORY	A	B	C	D	E
S-14	4860-3 ⁴ / ₄ 769 (800-3 ⁴ / ₄)	4860-1 ¹ / ₄ 769 (800-1 ¹ / ₄)	4860-2 ¹ / ₄ 769 (800-2 ¹ / ₄)	4860-2 ¹ / ₂	769 (800-2 ¹ / ₂)
CIRCLING	4860-1 765 (800-1)	4980-1 ¹ / ₄ 885 (900-1 ¹ / ₄)	4980-2 ³ / ₄ 885 (900-2 ³ / ₄)	5060-3 965 (1000-3)	5600-3 1505 (1600-3)

REIL Rwy 25
MIRL Rwy 7-25 **L**
HIRL Rwy 14-32 **L**

AL-473 (FAA)

VORTAC LMT 115.9 Chan 106	APP CRS 328°	Rwy Idg 10301 TDZE 4092 Apt Elev 4092
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VOR/DME or TACAN RWY 32

KLAMATH FALLS (LMT)

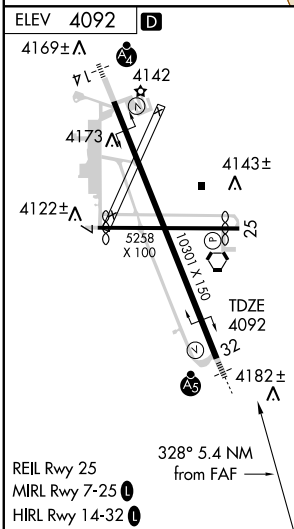
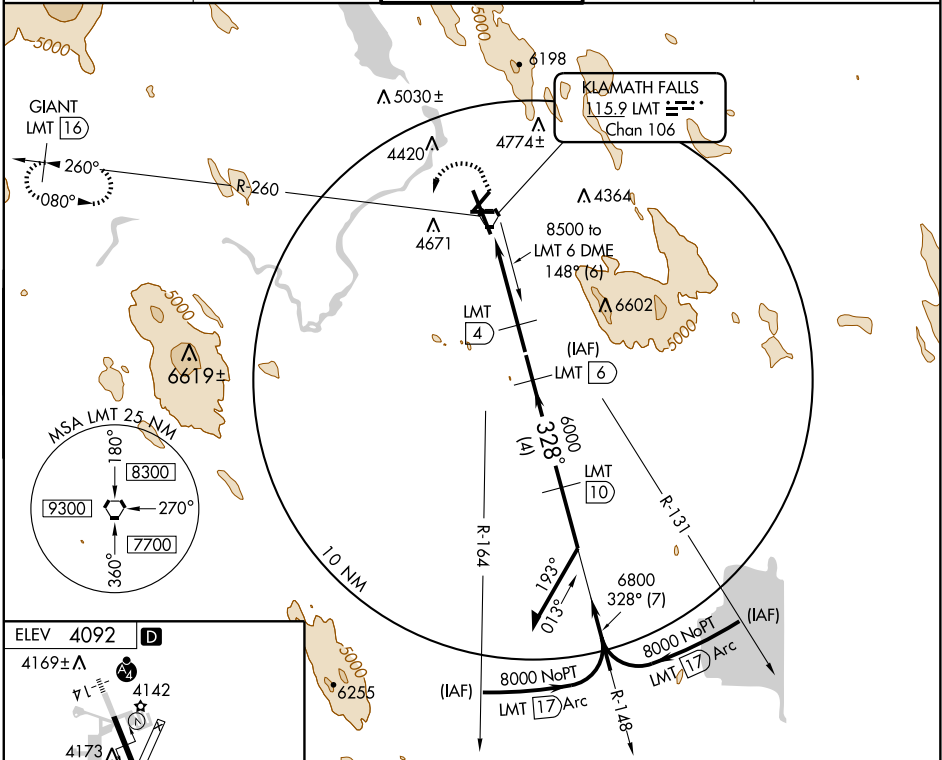
 Cat. E procedure turn NA.
 * Cat. E circling NA northeast of Rwy 14-32.
 ASR/PAR S-32 Cat. D visibility increased to RVR 6000 for
 inoperative ALSF-1.

MALSR



MISSED APPROACH: Climb to 5000 then climbing left turn to 8500 via LMT R-260 then climbing left turn to 10000 direct LMT VORTAC. (TACAN aircraft continue climb on R-260 to 10000 to GIANT/16 DME and hold East, left turns, 260 inbound.)

ATIS 126.5 263.0	KINGSLEY APP CON★ 123.675 270.8	KINGSLEY TOWER★ 133.975 (CTAF) 0 257.8	GND CON 121.9 348.6	UNICOM 122.95
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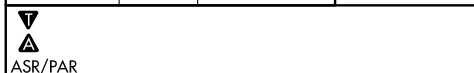


5000 ↑	8500 LMT R-260	10000	LMT 115.9	LMT 6	Remain within 10 NM	
VORTAC		LMT 1	LMT 4	LMT 10	7600	
0.4		3 NM	2 NM	4 NM	6800	
CATEGORY	A	B	C	D	E	
S-32	4500/24	408 (500-½)	4500/40 408 (500-¾)	4500/50	408 (500-1)	
CIRCLING*	4840-1 748 (800-1)	4980-1¼ 888 (900-1¼)	4980-2¾ 888 (900-2¾)	5000-3 908 (1000-3)	5500-3 1408 (1500-3)	

NW-1 14 JAN 2010 to 11 FEB 2010

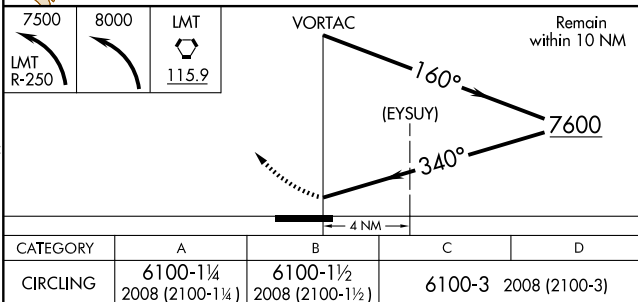
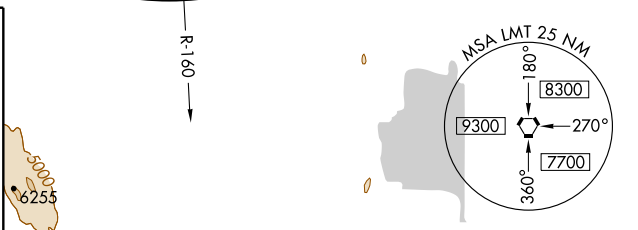
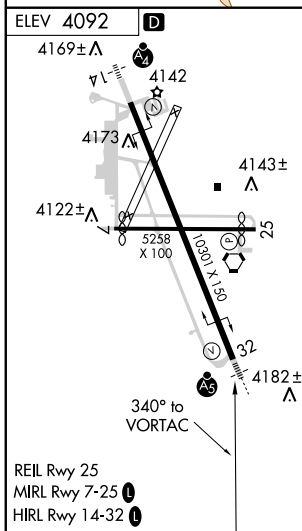
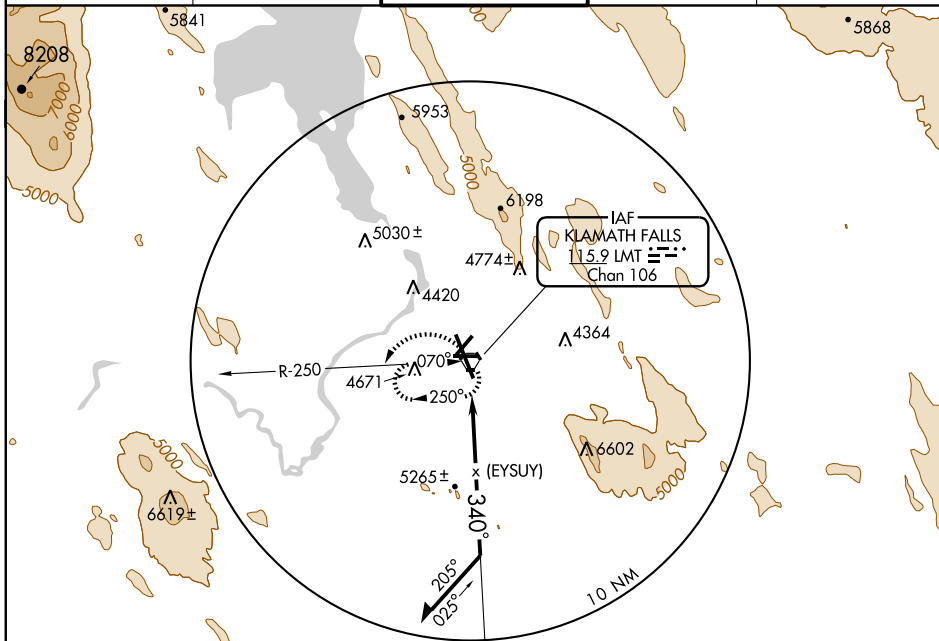
VORTAC LMT 115.9 Chan 106	APP CRS 340°	Rwy Idg N/A TDZE N/A Apt Elev 4092
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VOR or GPS-B
KLAMATH FALLS (LMT)



MISSED APPROACH: Climbing left turn to 7500 via LMT R-25 then climbing left turn to 8000 direct LMT VORTAC and hold.

ATIS 126.5 263.0	KINGSLEY APP CON ★ 123.675 270.8	KINGSLEY TOWER★ 133.975 (CTAF) 0 257.8	GND CON 121.9 348.6	UNICOM 122.95
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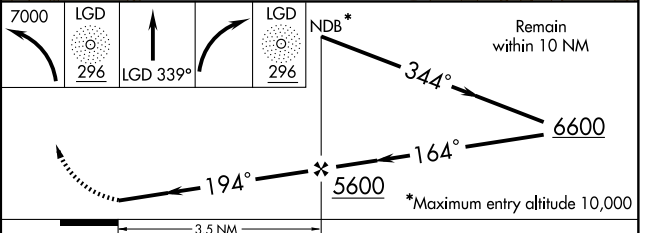
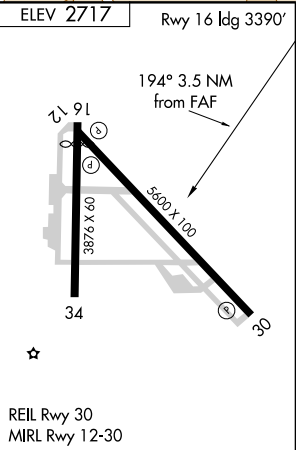
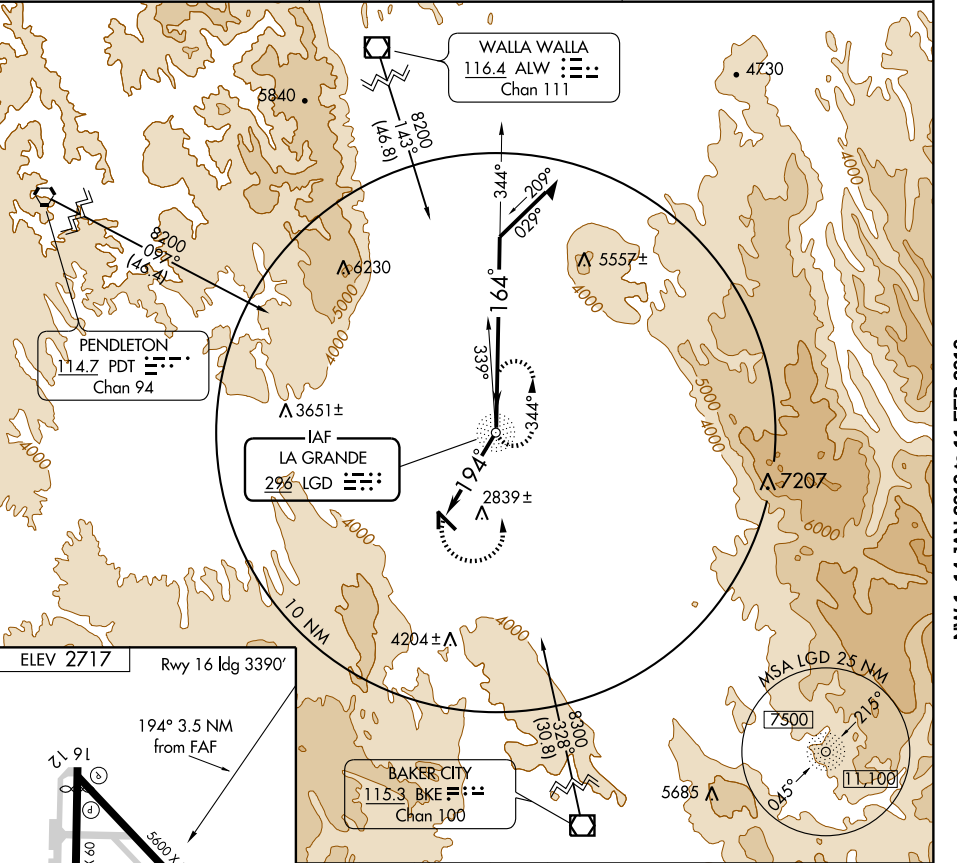
NDB LGD	APP CRS	Rwy Idg TDZE	N/A
296	194°	Apt Elev	2717

▼

▲ NA

MISSED APPROACH: Climbing left turn to 7000 direct LGD NDB and 339° bearing from LGD NDB, then right turn direct LGD NDB and hold.

AWOS-3 135,075	SEATTLE CENTER 132.6 269.35	UNICOM 122.8 (CTAF)
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FAF to MAP 3.5 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	4360-1¼ 1643 (1700-1¼)	4360-1½ 1643 (1700-1½)	4360-3 1643 (1700-3)	NA
Min:Sec	3:30	2:20	1:45	1:24	1:10					

NW-1. 14 JAN 2010 to 11 FEB 2010

WAAS CH 66000 W16A	APP CRS 163°	Rwy Idg 3390 TDZE 2714 Apt Elev 2717
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DME/DME RNP-0.3 NA.
If local altimeter setting not received procedure NA.

MISSED APPROACH: Climb to 9000 direct HIPVO and via 139° track to NUDEQ and hold, continue climb-in-hold to 9000.

AWOS-3 135.075	SEATTLE CENTER 132.6 269.35	UNICOM 122.8 (CTAF)
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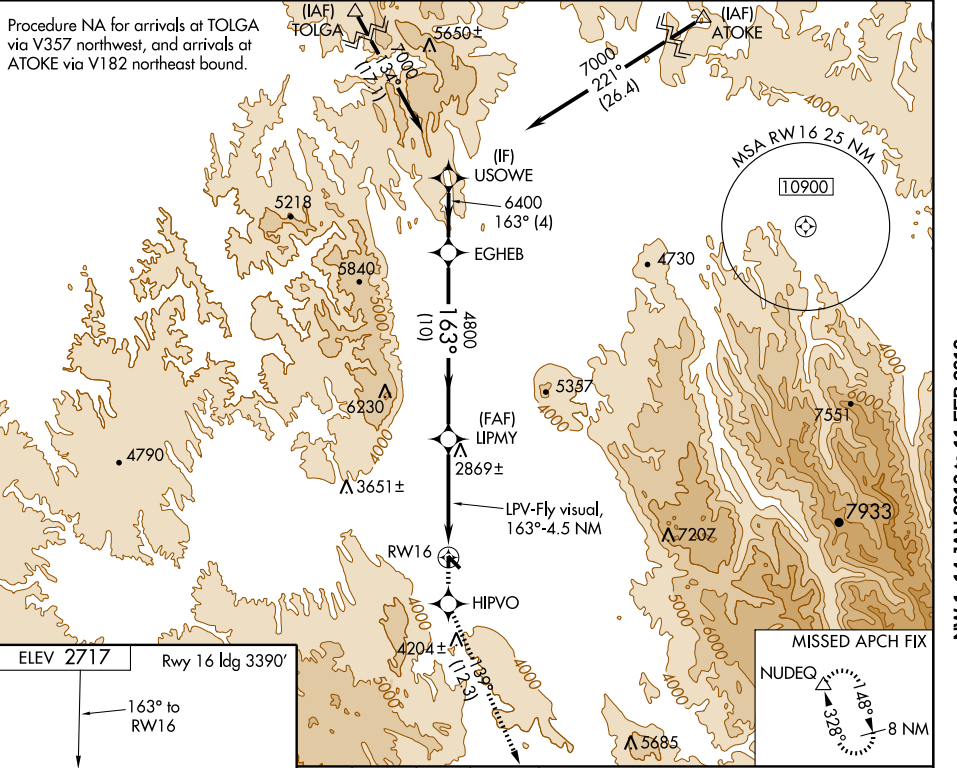


Diagram illustrating the approach procedure for Runway 30. The diagram shows a vertical segment of 3876 x 60 and a diagonal segment of 5600 x 100. Key points include TDZE 2714, a 91° turn, and a 30° turn. A star symbol is located below the diagram.

Diagram illustrating the approach procedure for Runway 30. The diagram shows a vertical segment of 3876 x 60 and a diagonal segment of 5600 x 100. Key points include TDZE 2714, a 91° turn, and a 30° turn. A star symbol is located below the diagram.

Diagram illustrating the missed approach procedure for Runway 30. The diagram shows a vertical segment of 3876 x 60 and a diagonal segment of 5600 x 100. Key points include TDZE 2714, a 91° turn, and a 30° turn. A star symbol is located below the diagram.

CATEGORY	A	B	C	D
LPV DA	4173-2	1459 (1500-2)	4173-3	1459 (1500-3)
LNAV/VNAV DA	NA			
LNAV MDA	4440-1 1/4 1726 (1800-1 1/4)	4440-1 1/2 1726 (1800-1 1/2)	4440-3 1726 (1800-3)	
CIRCLING	4440-6 1723 (1800-6)			

REIL Rwy 30
MRL Rwy 12-30

NW-1. 14 JAN 2010 to 11 FEB 2010

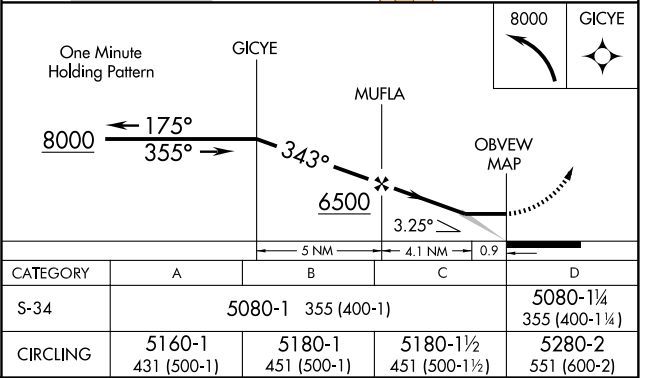
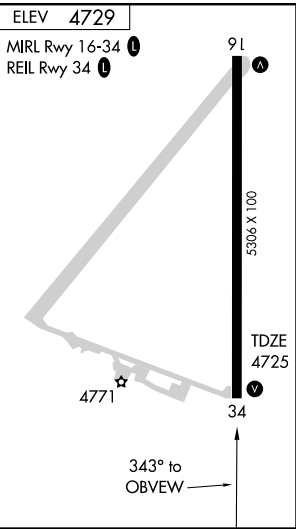
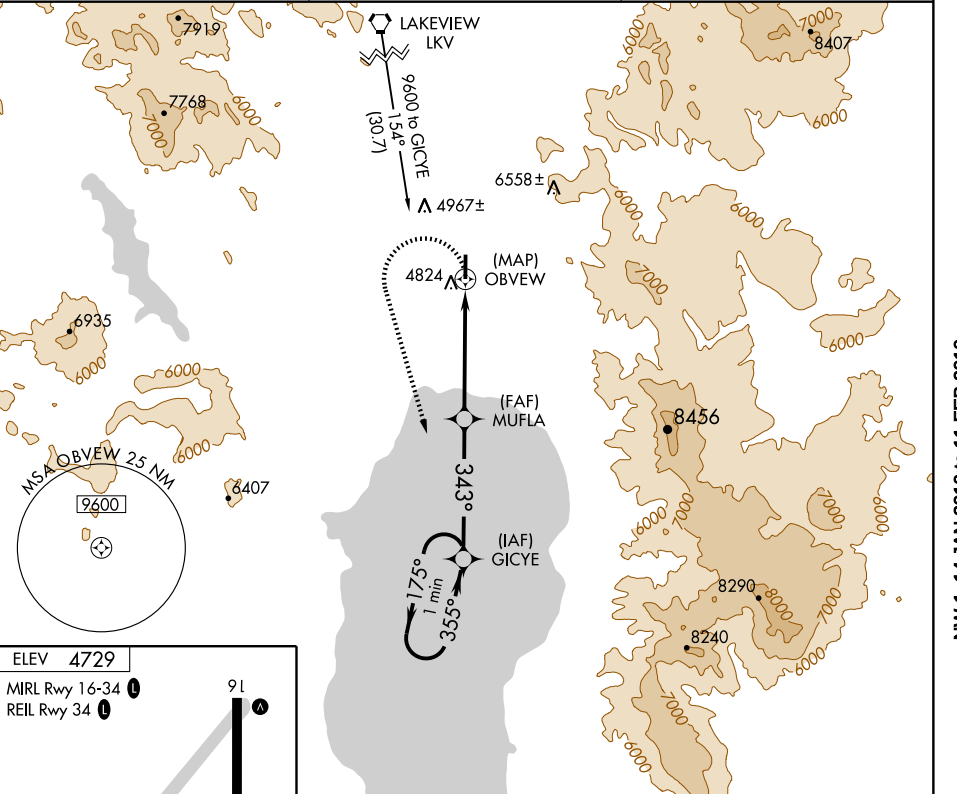
▼

NA

MISSED APPROACH:

Climbing left turn to 8000, direct GICYE WP and hold.

AWOS-3 135.525	SEATTLE CENTER 127.6 346.35	UNICOM 122.8 (CTAF)
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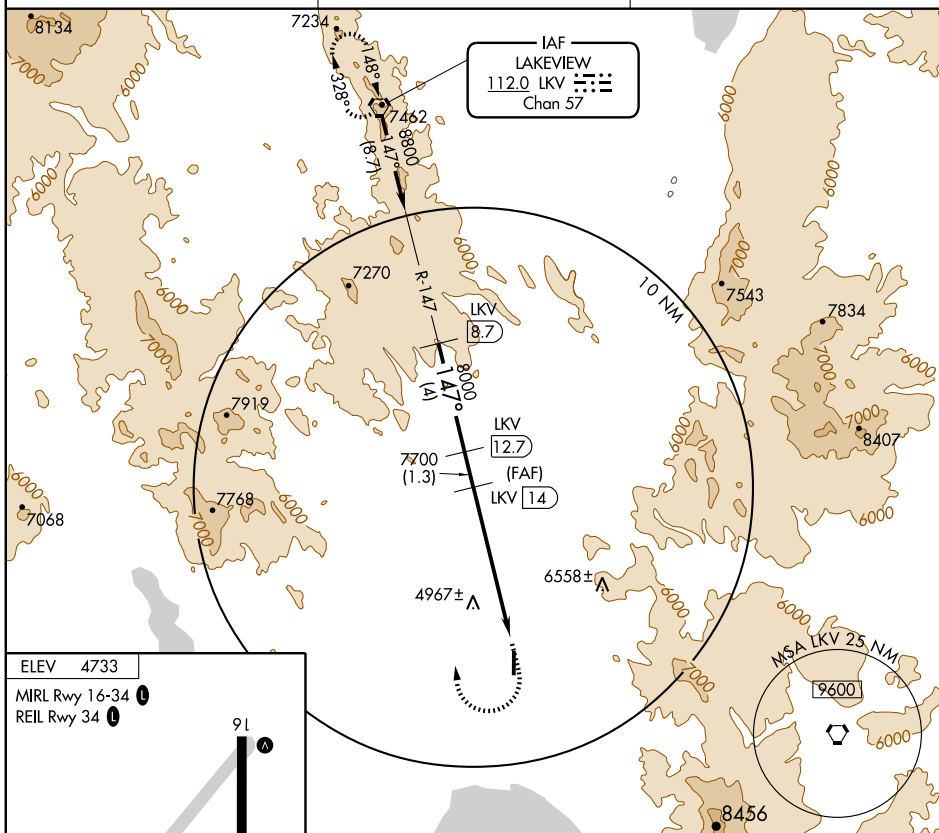


VOR/DME-A
LAKEVIEW / LAKE COUNTY (LKV)

MISSED APPROACH: Climb to 6200 then climbing right turn to 9200 direct LKV VORTAC and hold.

SEATTLE CENTER
127.6 346.35

UNICOM
122.8 (CTAF) **L**



ELEV 4733

MIRL Rwy 16-34 L

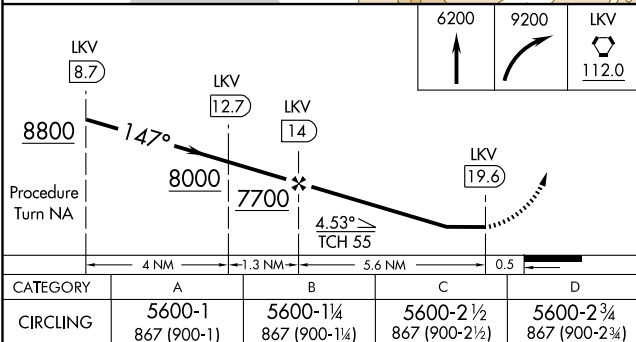
REIL Rwy 34 L

91

5306 X 100

4771

34



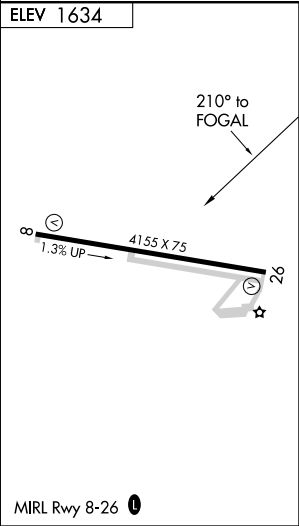
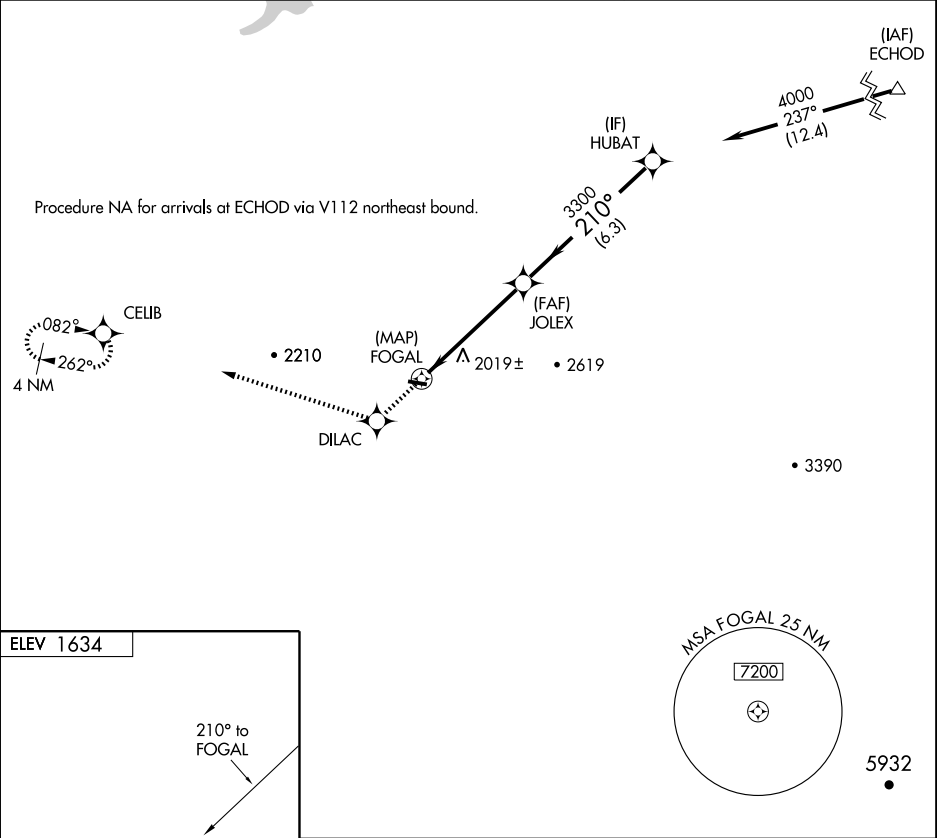
RNAV (GPS)-A
LEXINGTON (9S9)

APP CRS	Rwy Idg	N/A
210°	TDZE	N/A
	Apt Elev	1634

⚠ If local altimeter setting not received, use Hermiston altimeter setting and increase all MDAs 220 feet.
⚠ NA Procedure NA at night.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 4400 direct DILAC WP and via 271° track to CELIB WP and hold.

AWOS-3 134.475	SEATTLE CENTER 132.6 269.35	CTAF 122.9 0
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4400	DILAC	271° track	CELIB	HUBAT
			JOLEX	4000
	FOGAL			Procedure Turn NA
	5 NM		6.3 NM	
CATEGORY	A	B	C	D
CIRCLING	2380-1 746 (800-1)	2460-1¼ 826 (900-1¼)	2480-2½ 846 (900-2½)	2520-3 886 (900-3)

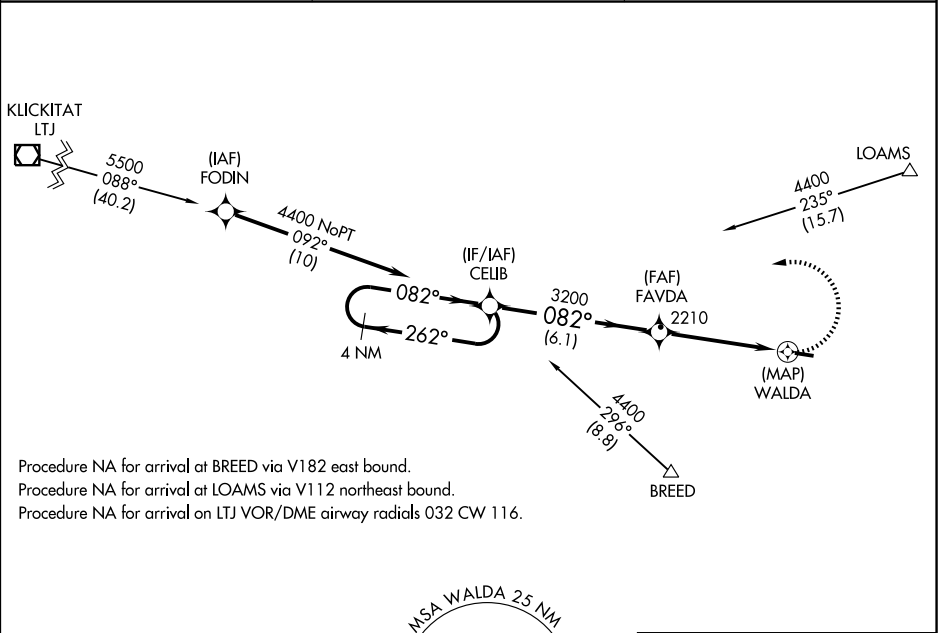
APP CRS	Rwy Idg	4155
082°	TDZE	1613
	Apt Elev	1634

RNAV (GPS) RWY 8
LEXINGTON (9S9)

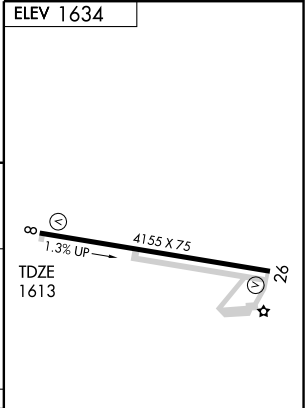
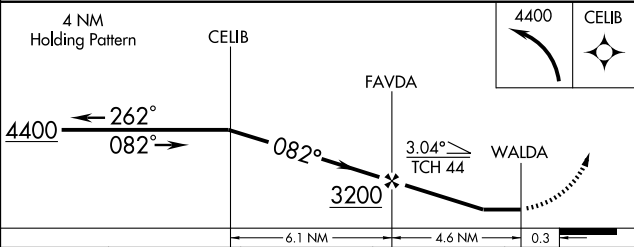
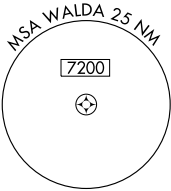
NA If local altimeter setting not received, use Hermiston altimeter setting and increase all MDAs 220 feet.
Procedure NA at night.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 4400 direct CELIB WP and hold.

AWOS-3 134.475	SEATTLE CENTER 132.6 269.35	CTAF 122.9
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3558 ±
A



CATEGORY	A	B	C	D
LNAV MDA	2120-1	507 (500-1)	2120-1½	507 (500-1½)
CIRCLING	2380-1 746 (800-1)	2460-1¼ 826 (900-1¼)	2480-2½ 846 (900-2½)	2520-3 886 (900-3)

MIRL Rwy 8-26

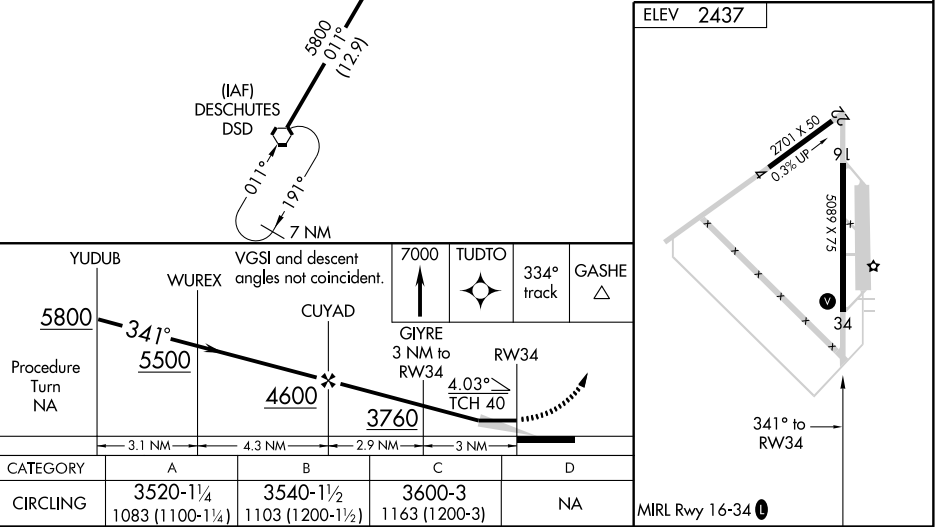
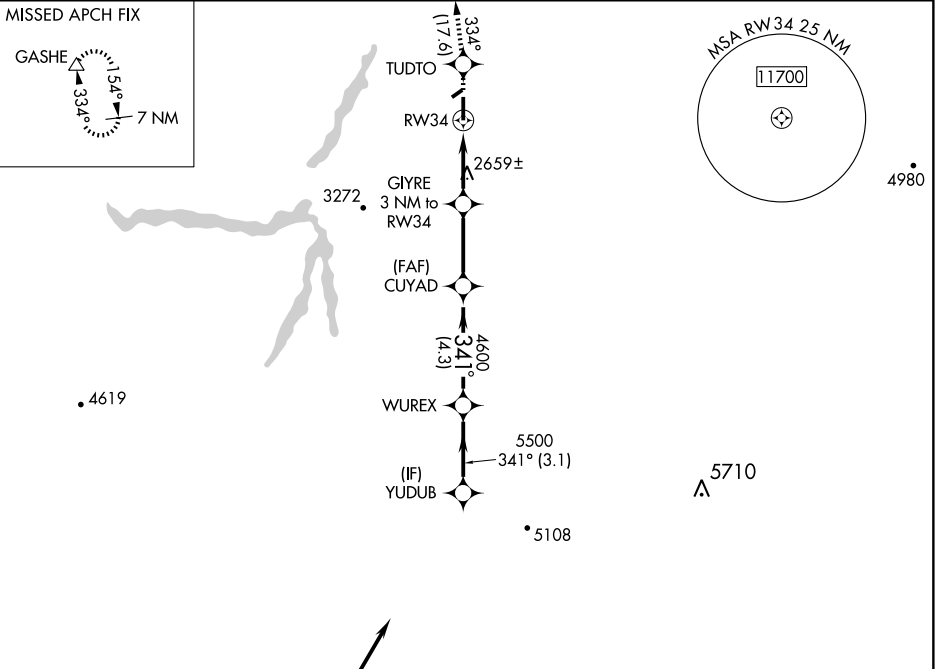
APP CRS	Rwy Idg	N/A
341°	TDZE	N/A
	Apt Elev	2437

RNAV (GPS)-A

MADRAS MUNI (S33)

▼ NA	DME/DME RNP-0.3 NA. Use Redmond altimeter setting; if not received, procedure NA.	MISSED APPROACH: Climb to 7000 direct TUDTO and via 334° track to GASHE and hold, continue climb-in-hold to 7000.
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REDMOND ASOS 119.025	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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LOC I-MMV <u>110.9</u>	APP CRS 218°	Rwy Idg TDZE Apt Elev	5420 161 163
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ILS or LOC RWY 22

T DME Required.
A When local altimeter setting not received, use Aurora State altimeter setting and increase all DA and MDA 60 feet. Increase all visibility $\frac{1}{4}$ mile.

MALSR

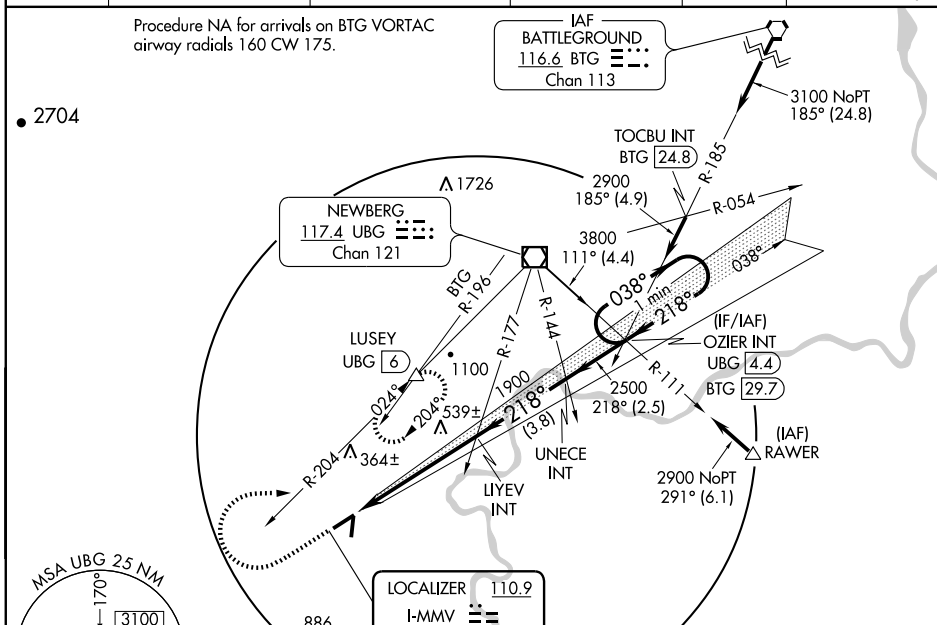


MISSED APPROACH: Climb to 900 then climbing right turn to 3000 via heading 069° and UBG VOR/DME R-204 to LUSEY/UBG VOR/DME 6 DME and hold, continue climb-in-hold to 3000.

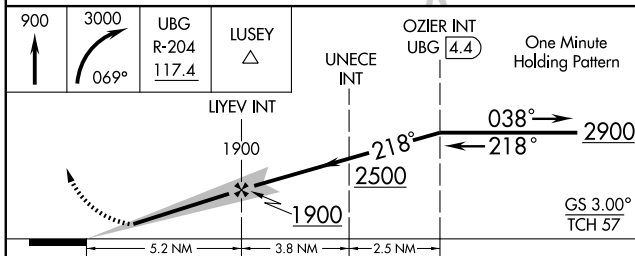
ASOS 135.675	PORTLAND APP CON 126.0 284.6 (NORTH)	SEATTLE CENTER 125.8 291.7 (SOUTH)	McMINNVILLE RADIO 122.45	CLNC DEL 118.35	UNICOM 123.0 (CTAF) 
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Procedure NA for arrivals on BTG VORTAC
airway radials 160 CW 175.

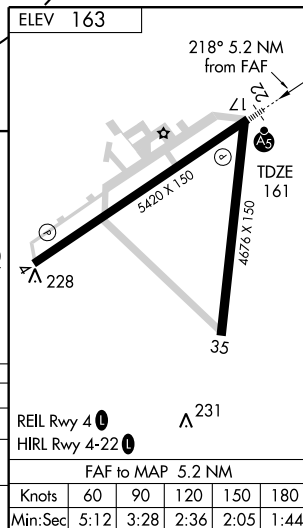
2704



NW-1. 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D
S-ILS 22	361-½ 200 (200-½)			
S-LOC 22	600-½ 439 (500-½)		600-¾ 439 (500-¾)	600-1 439 (500-1)
CIRCLING	640-1	477 (500-1)	760-1½ 597 (600-1½)	880-2½ 717 (800-2½)



APP CRS	Rwy Idg	5420
038°	TDZE	161
	Apt Elev	163

RNAV (GPS) RWY 4

MC MINNVILLE MUNI (MMV)

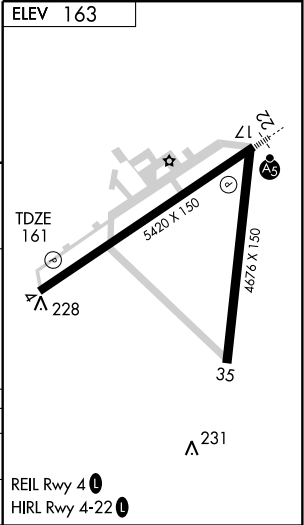
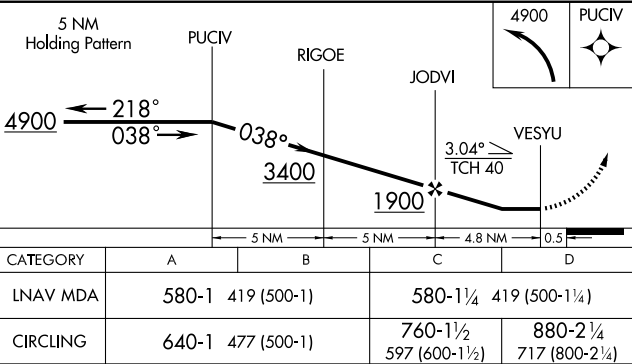
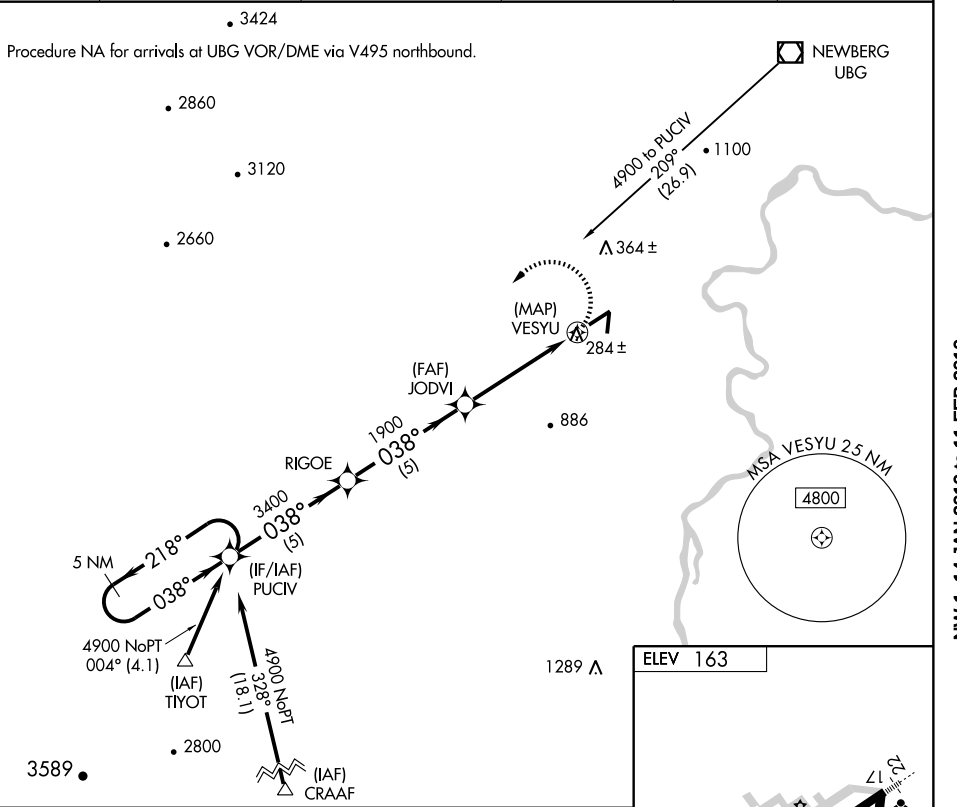
▼

▲

DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Aurora State altimeter setting and increase all MDA 60 feet and all visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4900 direct PUCIV and hold, continue climb-in-hold to 4900.

ASOS	PORTLAND APP CON	SEATTLE CENTER	McMINNVILLE RADIO	CLNC DEL	UNICOM
135.675	126.0 284.6 (NORTH)	125.8 291.7 (SOUTH)	122.45	118.35	123.0 (CTAF) ①



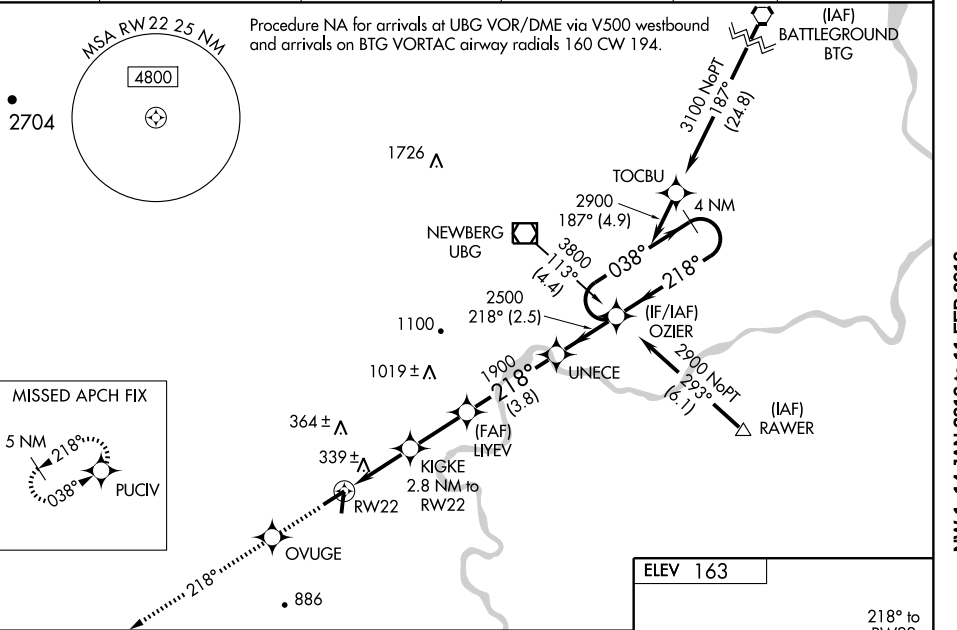
WAAS CH 50309 W22A	APP CRS 218°	Rwy Idg TDZE Apt Elev	5420 161 163
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▼ For inoperative MALSR, increase LPV all Cats. visibility to 1.
▲ Baro-VNAV NA when using Aurora State altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.
For inoperative MALSR when using Aurora State altimeter setting increase LPV visibility all Cats. to 1 ¼. VDP NA when using Aurora State altimeter setting.
When local altimeter setting not received, use Aurora State altimeter setting and increase all DA and MDA 60 feet, increase all visibility ¼ mile.

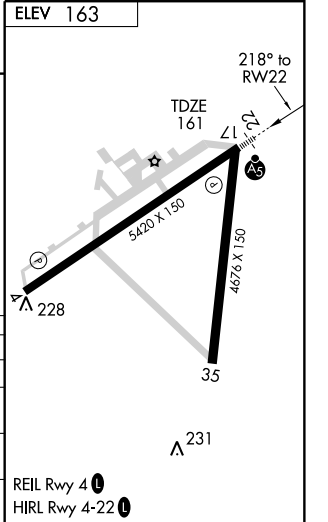
MALSR

MISSED APPROACH: Climb to 4900 direct OVUGE then via 218° track to PUCIV and hold, continue climb-in-hold to 4900.

ASOS 135.675	PORTLAND APP CON 126.0 284.6 (NORTH)	SEATTLE CENTER 125.8 291.7 (SOUTH)	McMINNVILLE RADIO 122.45	CLNC DEL 118.35	UNICOM 123.0 (CTAF) 1
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4900	OVUGE	218° track	PUCIV
* LNAV only			
KIGKE 2.8 NM to RW22			
LYEYV 1900			
* 1.7 NM to RW22			
RW22 1100*			
2500			
UNECE			
OZIER			
4 NM Holding Pattern			
038° → 2900			
← 218°			
GS 3.00° TCH 57			
CATEGORY	A	B	D
LPV DA	474-1½ 313 (400-½)		
LNAV/VNAV DA	633-1¼ 472 (500-1¼)		
LNAV MDA	740-½ 579 (600-½)	740-1 579 (600-1)	740-1¼ 579 (600-1¼)
CIRCLING	740-1 577 (600-1)	760-1½ 597 (600-1½)	880-2¼ 717 (800-2¼)



NW-1. 14 JAN 2010 to 11 FEB 2010

VOR/DME UBG
117.4
Chan **121**

APP CRS
014°

Rwy Idg	TDZE	Apt Elev
10L	10	10
10R	10	10
11	10	10
12	10	10
13	10	10
14	10	10
15	10	10
16	10	10
17	10	10
18	10	10
19	10	10
20	10	10
21	10	10
22	10	10
23	10	10
24	10	10
25	10	10
26	10	10
27	10	10
28	10	10
29	10	10
30	10	10
31	10	10
32	10	10
33	10	10
34	10	10
35	10	10
36	10	10
37	10	10
38	10	10
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40	10	10
41	10	10
42	10	10
43	10	10
44	10	10
45	10	10
46	10	10
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82	10	10
83	10	10
84	10	10
85	10	10
86	10	10
87	10	10
88	10	10
89	10	10
90	10	10
91	10	10
92	10	10
93	10	10
94	10	10
95	10	10
96	10	10
97	10	10
98	10	10
99	10	10
100	10	10

N/A
N/A
163

VOR/DME-B
MC MINNVILLE MUNI (MMV)

T When local altimeter setting not received use Aurora State
A altimeter setting and increase all MDA 60 feet and all
visibility $\frac{1}{4}$ mile.

MISSED APPROACH: Climbing left turn to 4800 via heading 180° and UBG VOR/DME R-204 to COGOK/UBG 23 DME and hold, continue climb-in-hold to 4800.

ASOS
135.675

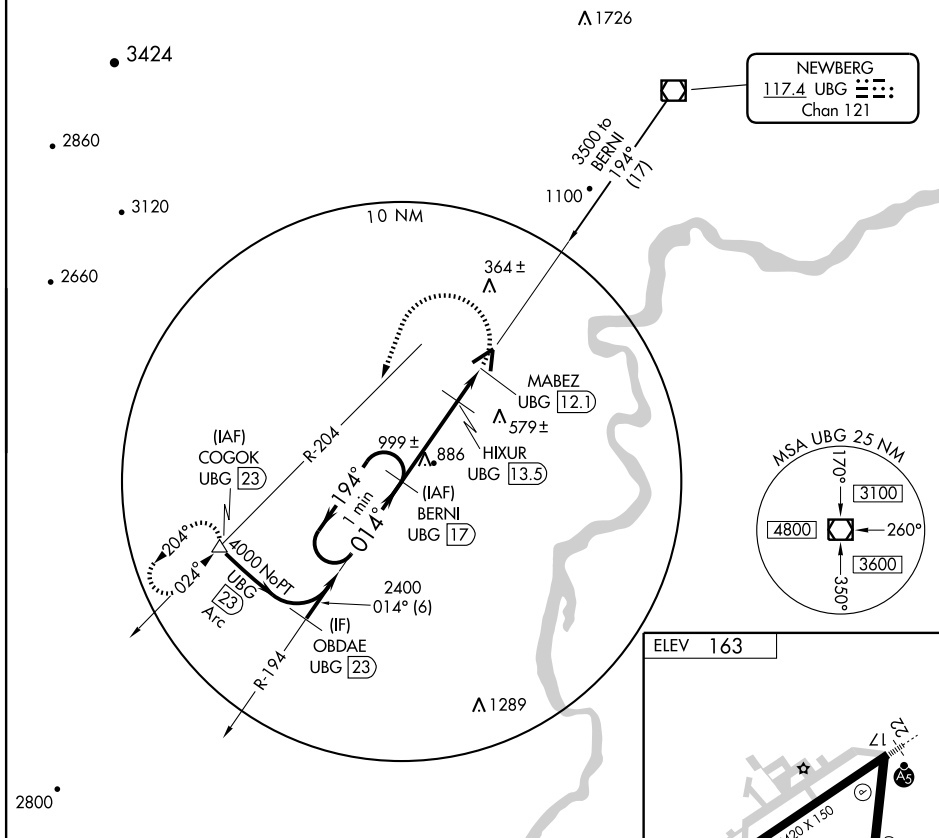
PORTLAND APP CON
126.0 284.6 (NORTH)

SEATTLE CENTER
125.8 291.7 (SOUTH)

McMINNVILLE RADIO
122.45

CLNC DEL
118.35

UNICOM
123.0 (CTAF) **L**



NW-1. 14 JAN 2010 to 11 FEB 2010

One Minute Holding Pattern

BERNI
UBG 17

4800

UBG
R-204
117.4

COGOK
△

014° 4.9 NM Δ^{231}
from FAF

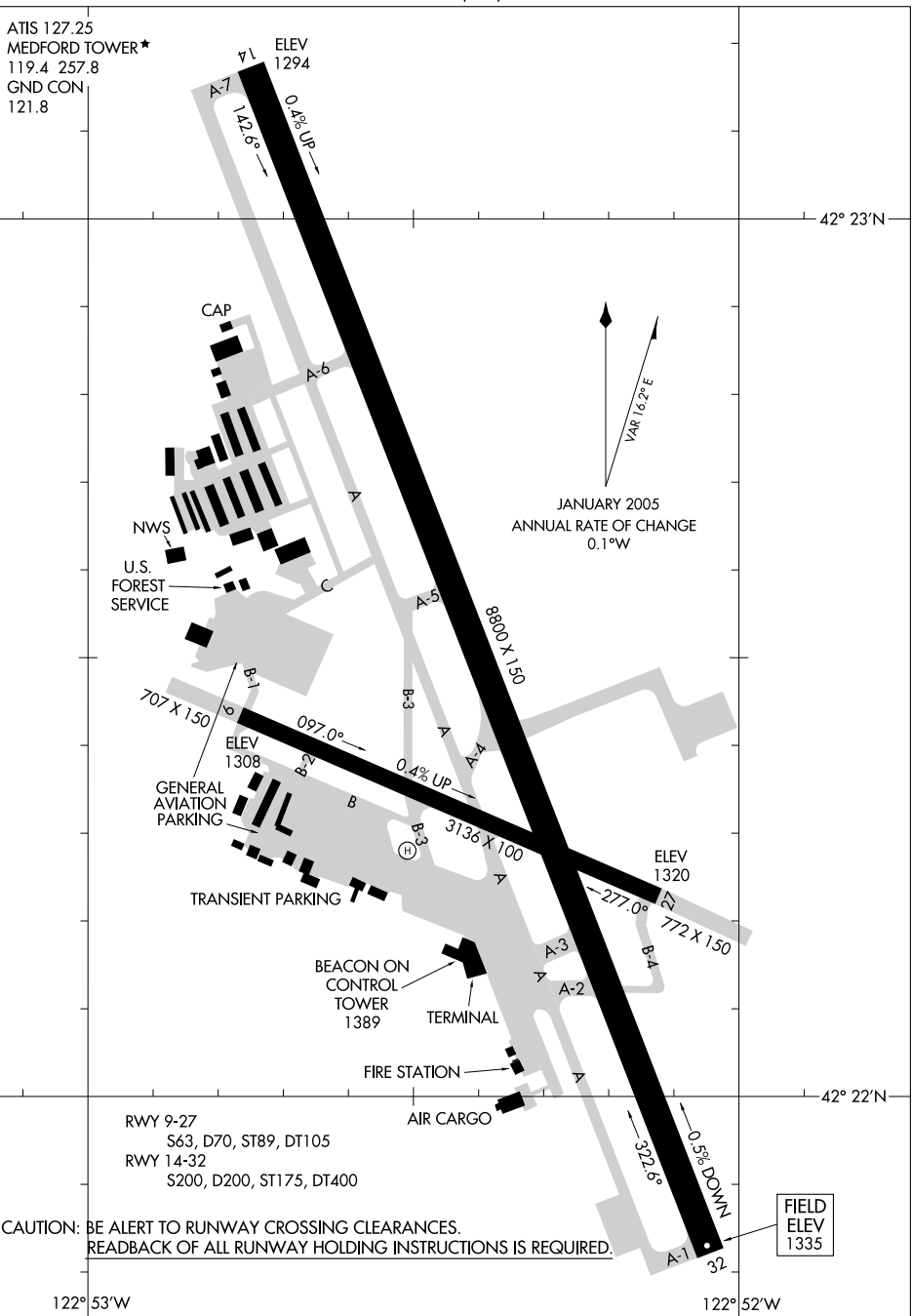
REIL Rwy 4 **L**HIRL Rwy 4-22 **L**

CATEGORY	A	B	C	D
CIRCLING	840-1	677 (700-1)	840-2 677 (700-2)	880-2 ¼ 717 (800-2 ¼)

AIRPORT DIAGRAM

MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)
AL-251 (FAA) MEDFORD, OREGON

ATIS 127.25
MEDFORD TOWER ★
119.4 257.8
GND CON
121.8



NW-1. 14 JAN 2010 to 11 FEB 2010

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

RWY 9-27
S63, D70, ST89, DT105
RWY 14-32
S200, D200, ST175, DT400

BRUTE FIVE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 14: Climbing right turn direct to MEF NDB, depart MEF NDB 063° bearing outbound to BRUTE INT. Thence. . . .

TAKE-OFF RUNWAY 32: Climbing right turn via 060° heading and OED R-098 to BRUTE INT. Thence. . . .

. . . . via (transition) or (assigned route). Maintain 11000 or assigned altitude.

COPPO TRANSITION (BRUTE5.COPPO) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to COPPO DME.

CUTTR TRANSITION (BRUTE5.CUTTR) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to CUTTR DME.

DREWS TRANSITION (BRUTE5.DREWS) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to DREWS DME.

GRENA TRANSITION (BRUTE5.GRENA) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to JADUN DME. Then via OED R-138 to GRENA INT.

HANDY TRANSITION (BRUTE5.HANDY) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to HANDY DME.

LANKS TRANSITION (BRUTE5.LANKS) : From over BRUTE INT via OED R-098 to LANKS INT.

MOURN TRANSITION (BRUTE5.MOURN) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to UZEHE DME. Then via OED R-333 to MOURN INT.

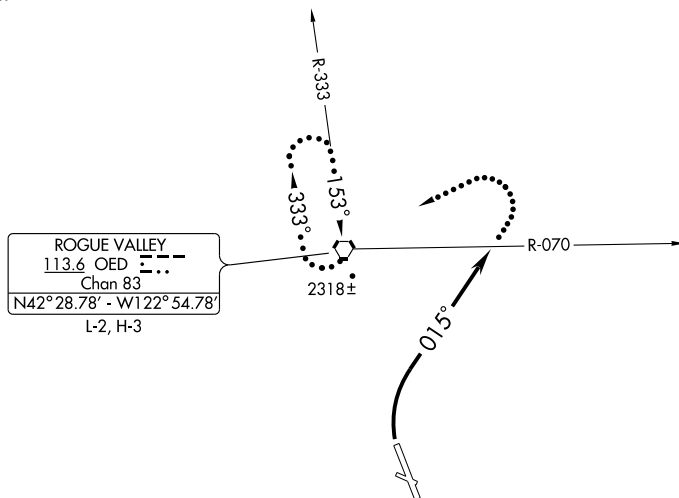
TALEM TRANSITION (BRUTE5.TALEM) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to FIBUR DME. Then via OED R-157 to TALEM DME.

UZEHE TRANSITION (BRUTE5.UZEHE) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to UZEHE DME.

EAGLE THREE DEPARTURE

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MF'R)
SL-251 (FAA) MEDFORD, OREGON

ATIS 127.25
GND CON
121.8
MEDFORD TOWER ★
119.4 257.8
CASCADE DEP CON ★
124.3 379.9
SEATTLE CENTER
124.85 306.3

TAKE-OFF MINIMUMS

RWY 32: 1700-3 or standard with minimum climb
of 300' per NM to 3000'.

RWYS 9, 14, and 27: Not authorized for this departure procedure.

ATC climb rate of 410' per NM until passing 6300 required.



DEPARTURE ROUTE DESCRIPTION

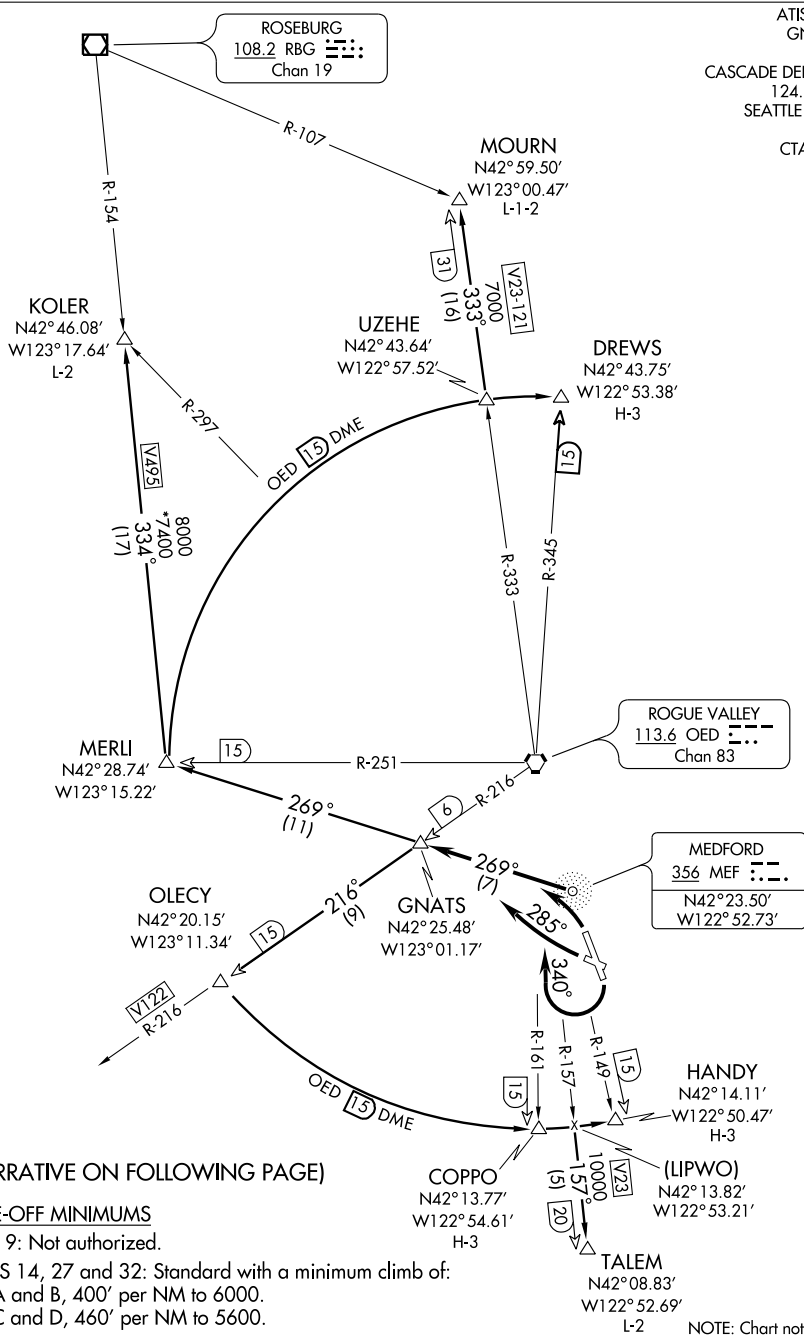
TAKE-OFF RUNWAY 32: Climbing right turn to heading 015°, maintain 11000' or assigned altitude, expect radar vectors to assigned route.
Expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC crossing the OED R-070, turn left, proceed direct OED VORTAC, continue climb in holding pattern (NW, right turn, 153° inbound) to minimum crossing altitude/minimum enroute altitude before proceeding on course.

GNATS THREE DEPARTURE

SL-251 (FAA)

MEDFORD, OREGON



NOTE: Chart not to scale.

NW-1. 14 JAN 2010 to 11 FEB 2010

GNATS THREE DEPARTURE

SL-251 (FAA)

MEDFORD, OREGON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 14: Climbing right turn via 340° heading and MEF NDB 269° bearing outbound to GNATS INT. Thence. . .

TAKE-OFF RUNWAY 27: Climbing right turn via 285° heading and MEF NDB 269° bearing outbound to GNATS INT. Thence. . .

TAKE-OFF RUNWAY 32: Climbing left turn via MEF NDB 269° bearing outbound to GNATS INT. Thence. . .

. . . via (transition) or (assigned route). Maintain 10,000' or assigned lower altitude.

COPPO TRANSITION (GNATS3.COPPO): From over GNATS INT via OED R-216 to OLECY INT, then via the OED 15 DME Arc to COPPO DME.

DREWS TRANSITION (GNATS3.DREWS): From over GNATS INT via the MEF NDB 269° bearing to MERLI INT, then via the OED 15 DME Arc to DREWS DME.

HANDY TRANSITION (GNATS3.HANDY): From over GNATS INT via the OED R-216 to OLECY INT, then via the OED 15 DME Arc to HANDY DME.

KOLER TRANSITION (GNATS3.KOLER): From over GNATS INT via MEF NDB 269° bearing to MERLI INT, then via RBG R-154 to KOLER INT.

MOURN TRANSITION (GNATS3.MOURN): From over GNATS INT via MEF NDB 269° bearing to MERLI INT, then via the OED 15 DME Arc to intercept OED R-333 to MOURN INT.

TALEM TRANSITION (GNATS3.TALEM): From over GNATS INT via OED R-216 to OLECY INT, then via the OED 15 DME Arc to intercept OED R-157 to TALEM DME.

LOC/DME I-MFR <u>110.3</u> Chan 40	APP CRS 140°	Rwy Idg 8800 TDZE 1303 Apt Elev 1335
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ILS or LOC/DME RWY 14

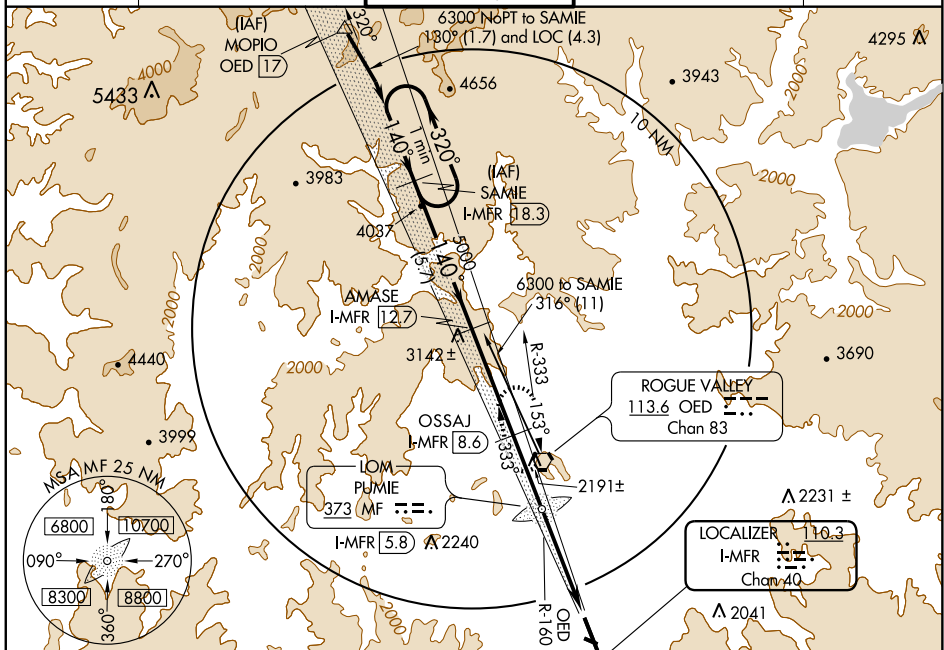
MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)

T For inoperative MALS, increase S-ILS 14 CAT B
A visibility to RVR 6000, CAT C visibility to 1½ mile,
and CAT D visibility to 2 miles.

MALSR
A5

MISSED APPROACH: Cat A climb to 2000; Cat B climb to 2300; Cat C climb to 2400; Cat D climb to 2500, then climbing right turn to 6400 via heading 350° and OED R-160 to OED VORTAC and hold, continue climb-in-hold to 6400.

ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 0 257.8	GND CON 121.8	UNICOM 122.95
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**DME or RADAR REQUIRED
FOR PROCEDURE ENTRY**

Use I-MFR DME when on LOC course.

SAMIE
L MEF

AMASE
LMEB

Cat A	20
Cat B	23
Cat C	24
Cat D	25

640

--	--

OED

OLD

One Minute Holding Pattern

18.3

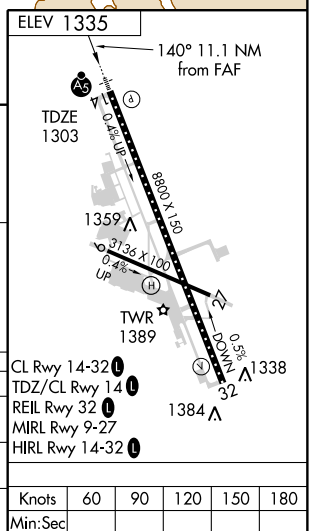
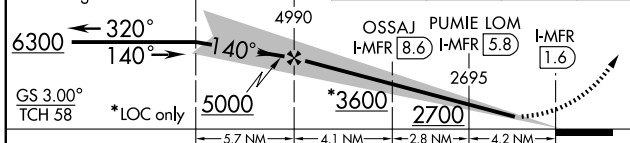
12.7



35

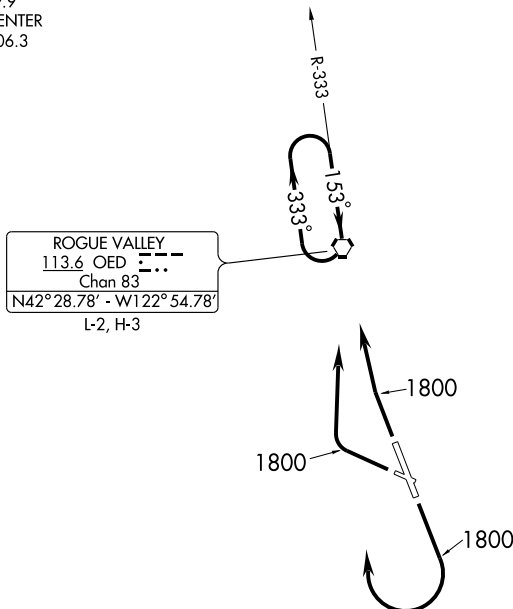
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113.6



NW-1: 14 JAN 2010 to 11 FEB 2010

ATIS 127.25
GND CON
121.8
MEDFORD TOWER ★
119.4 257.8
CASCADE DEP CON ★
124.3 379.9
SEATTLE CENTER
124.85 306.3



TAKE-OFF MINIMUMS

RWY 9: Not authorized.

RWY 14: Standard with a minimum climb of:

Cats A/B, 270' per NM to 3100', Cats C/D, 440' per NM to 4900.

RWY 27: Standard with minimum climb of 360' per NM to 3600.

RWY 32: Standard with a minimum climb of 300' per NM to 3000.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Not authorized.

TAKE-OFF RUNWAYS 14 and 27: Climb runway heading to 1800 then turn right. Thence. . .

TAKE-OFF RUNWAY 32: Climb runway heading to 1800. Thence. . .

. . . climb direct to the OED VORTAC. Continue climb in OED holding pattern (NW, right turn, 153° inbound) at or above 7000' before proceeding on course.

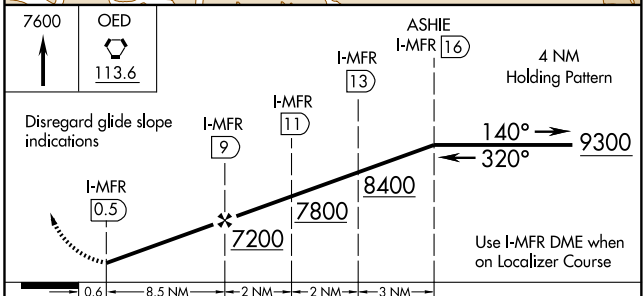
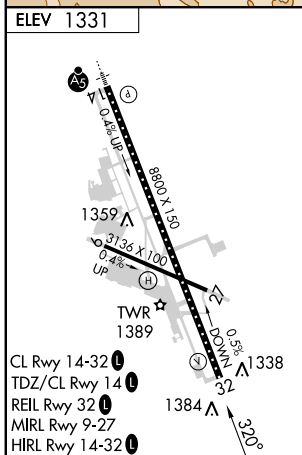
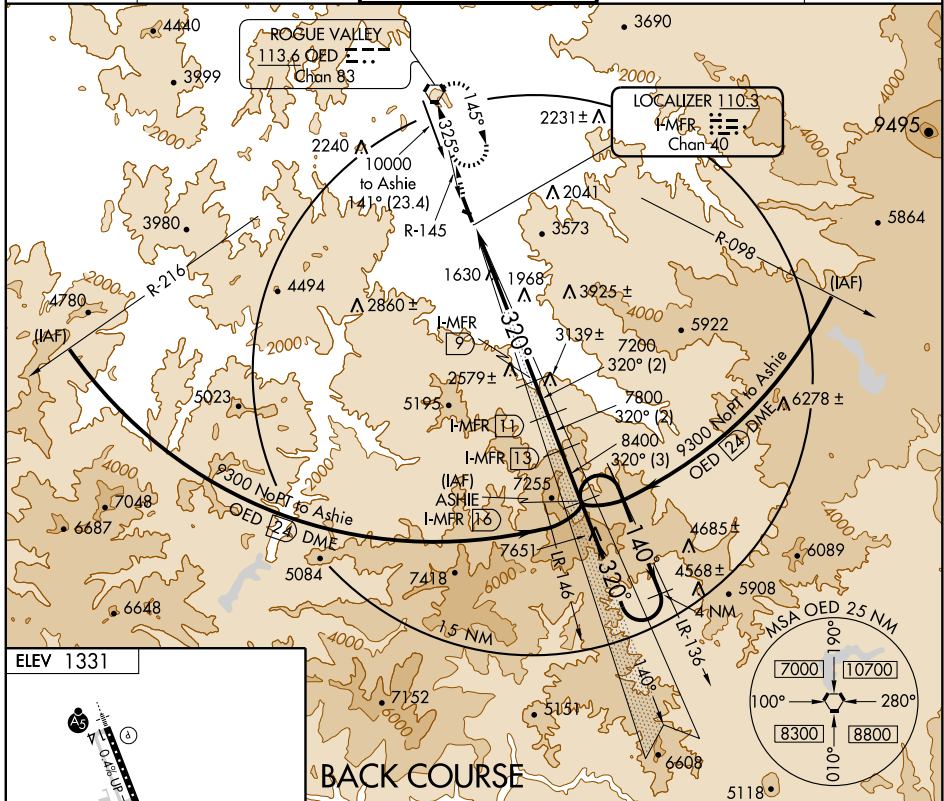
LOC/DME I-MFR 110.3 Chan 40	APP CRS 320°	Rwy Idg TDZE Apt Elev	N/A N/A 1331
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LOC/DME BC-B

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)

▼ ▲	MISSED APPROACH: Climb to 7600 direct OED VORTAC and hold, continue climb-in-hold to 7600.
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ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 0 257.8	GND CON 121.8	UNICOM 122.95
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Knots	60	90	120	150	180
Min:Sec					

CATEGORY	A	B	C	D
CIRCLING	3540-1¼ 2209 (2300-1¼)	3540-1½ 2209 (2300-1½)	3540-3	2209 (2300-3)

APP CRS
325°

Rwy Idg
TDZE
Apt Elev

N/A
N/A
1335

RNAV (GPS)-D

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)



DME/DME RNP-0.3 not authorized.

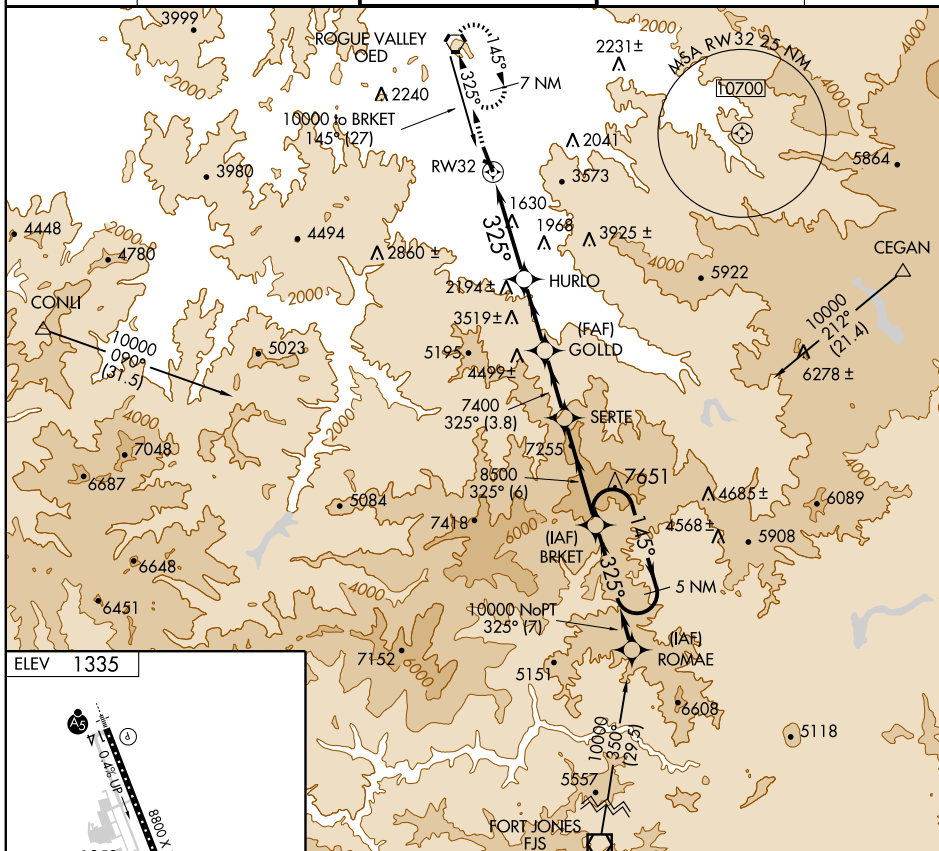
MISSED APPROACH: Climb to 7800 direct OED VORTAC and hold, continue climb-in-hold to 7800.

ATIS
127.25

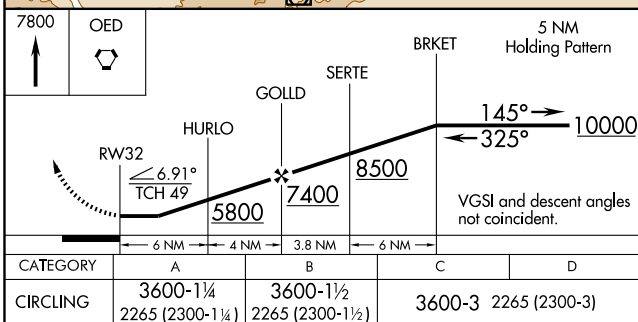
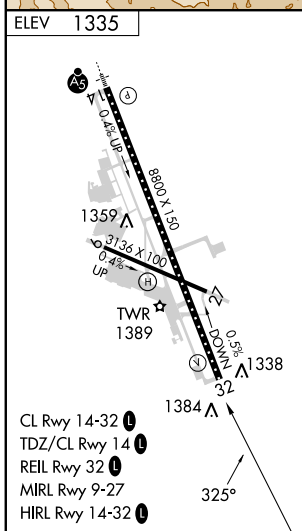
CASCADE APP CON★
124.3 379.9

MEDFORD TOWER★
119.4 (CTAF) **L** 257.8

GND CON
121.8

UNICOM
122.95

NW-1: 14 JAN 2010 to 11 FEB 2010



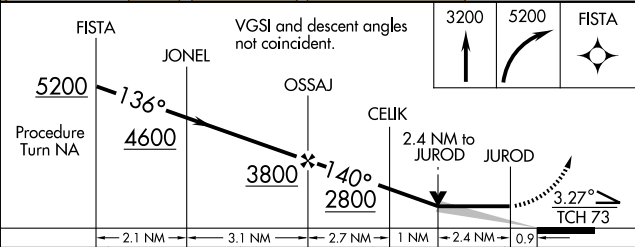
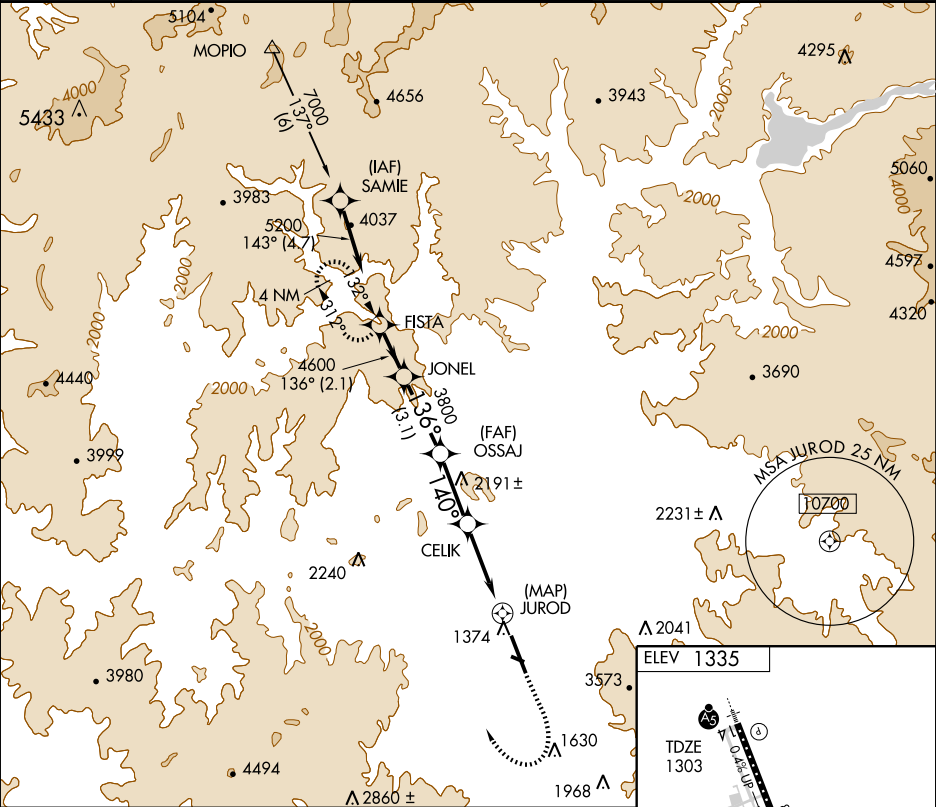
APP CRS	Rwy Idg	8800
140°	TDZE	1303
	Apt Elev	1335

RNAV (GPS) RWY 14

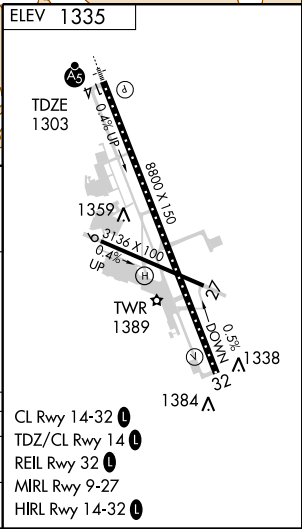
MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)

	DME/DME RNP-0.3 NA.		MISSED APPROACH: Climb to 3200 then climbing right turn to 5200 direct FISTA WP and hold.
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ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 0 257.8	GND CON 121.8	UNICOM 122.95
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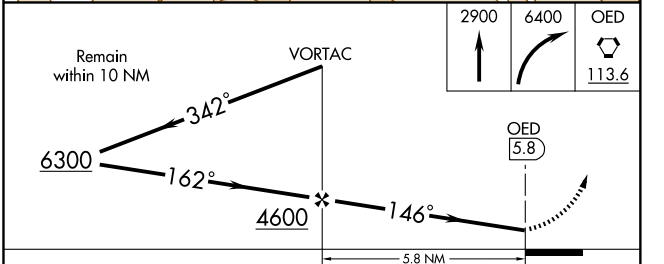
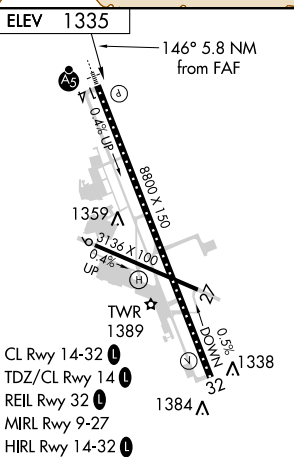
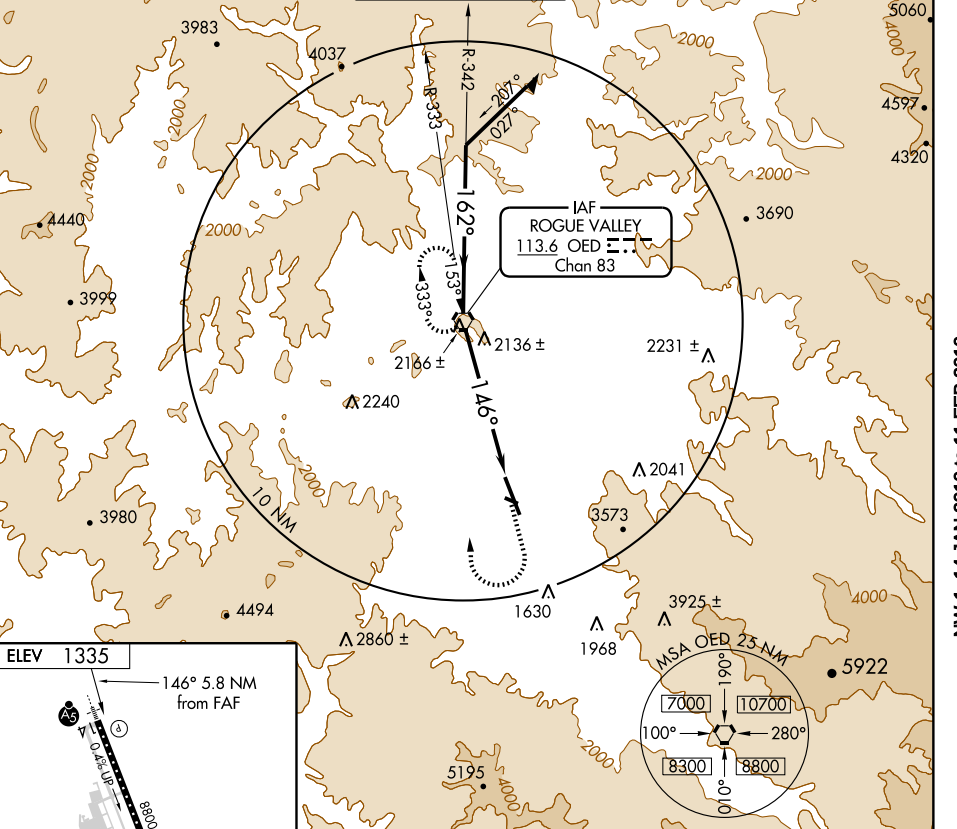
CATEGORY	A	B	C	D
LNNAV MDA	2400/40 1097 (1100-¾)	2400/50 1097 (1100-1)	2400-2½ 1097 (1100-2½)	
CIRCLING	2400-1¼ 1065 (1100-1¼)	2400-1½ 1065 (1100-1½)	2400-3 1065 (1100-3)	



⚠ If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 2900 then climbing right turn to 6400 direct OED VORTAC and hold, continue climb-in-hold to 6400.

ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 257.8	GND CON 121.8	UNICOM 122.95
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FAF to MAP 5.8 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	2680-1¼ 1345 (1400-1¼)	2680-1½ 1345 (1400-1½)	2680-3 1345 (1400-3)	
Min:Sec	5:48	3:52	2:54	2:19	1:56					

VORTAC OED 113.6 Chan 83	APP CRS 325°	Rwy Idg TDZE Apt Elev	N/A N/A 1335
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VOR/DME-C

MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)



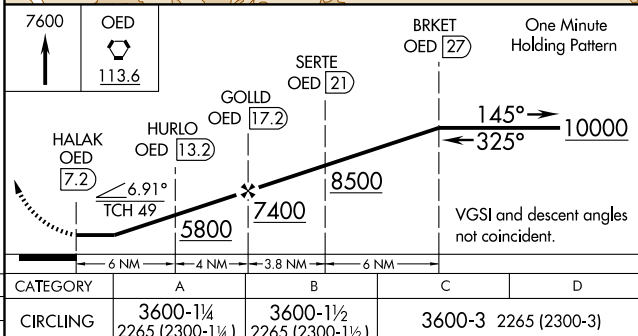
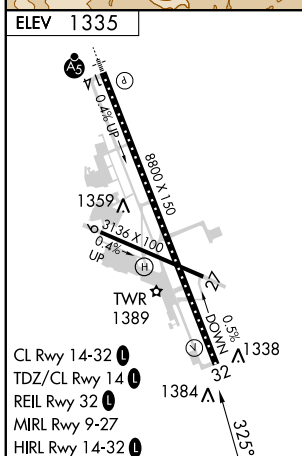
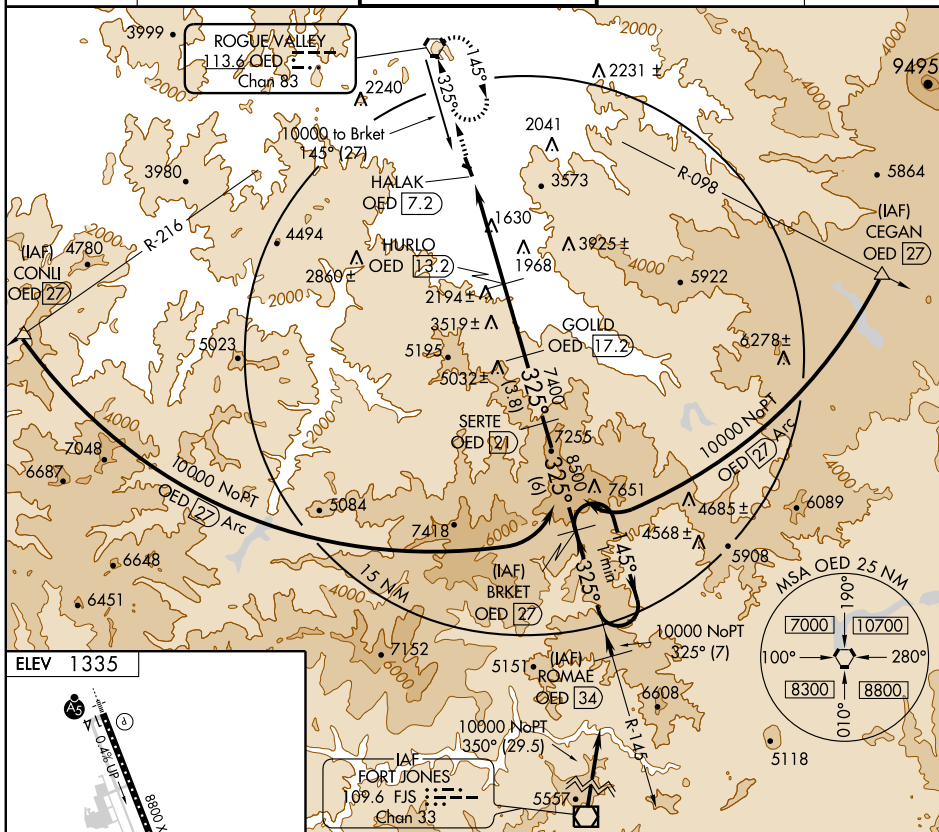
MISSED APPROACH: Climb to 7600 direct OED VORTAC and hold, continue climb-in-hold to 7600.

ATIS
127.25

CASCADE APP CON★
124.3 379.9

MEDFORD TOWER★
119.4 (CTAF) **L** 257.8

GND CON
121.8

UNICOM
122.95

VORTAC OED 113.6 Chan 83	APP CRS 146°	Rwy Idg 8800 TDZE 1303 Apt Elev 1335
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VOR/DME RWY 14

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)

T Inoperative table does not apply to S-14 CAT A.
A For inoperative MALSR increase S-14 CAT B visibility to 1½.

MALSR
A5

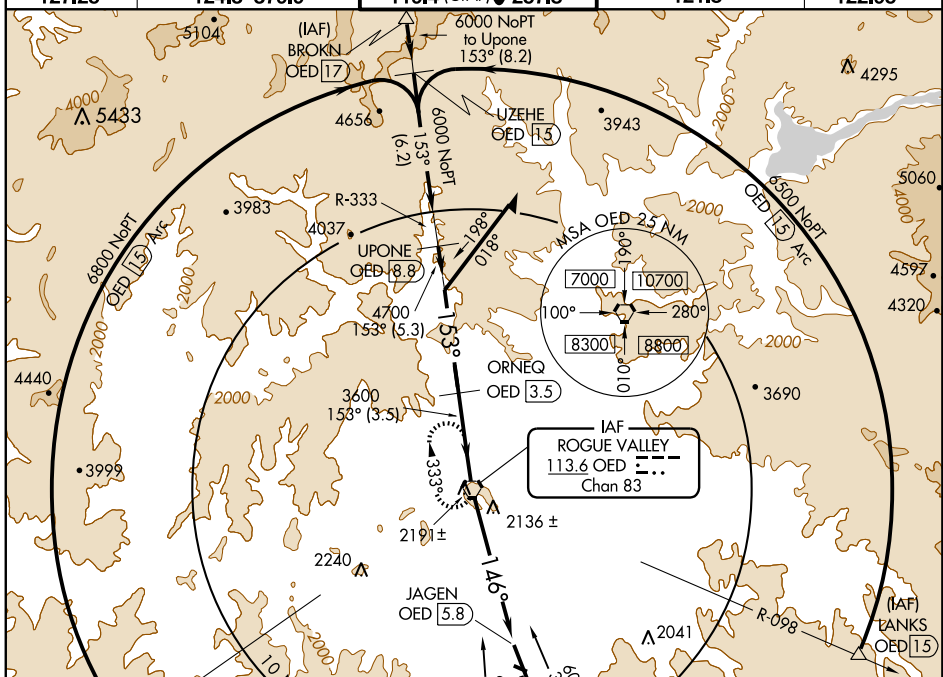
MISSED APPROACH: Climb to 2900 then climbing right turn to 6400 direct OED VORTAC and hold, continue climb-in-hold to 6400.

ATIS
127.25

CASCADE APP CON★
124.3 379.9

MEDFORD TOWER ★
119.4 (CTAF) L 257.8

GND CO
121.8

UNICOM
122.95

NW-1. 14 JAN 2010 to 11 FEB 2010

Remain
within 12 NM

VORTAC

6000 $\swarrow$ 333° ORNEQ
 $\searrow$ 153° OED 3.5
 4700

GSI and descent angles

VGSI and desc
not coincident.

OE
17

OED
17

1.7

JAGE
QFD

TCH 73
-146°

—

3.5 nm 1.7 nm 4.1 nm

	C	D
--	---	---

A	B
---	---

0/00/10

2680/60 1377 (1400-1¼)

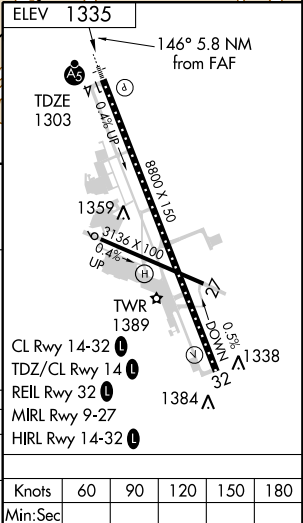
2680-1¼	2680-1½
---------	---------

C	D
---	---

0/00 01/

2680-2 1/2 1377 (1400-2 1/2)

0/00.0 1045 (1400.2)

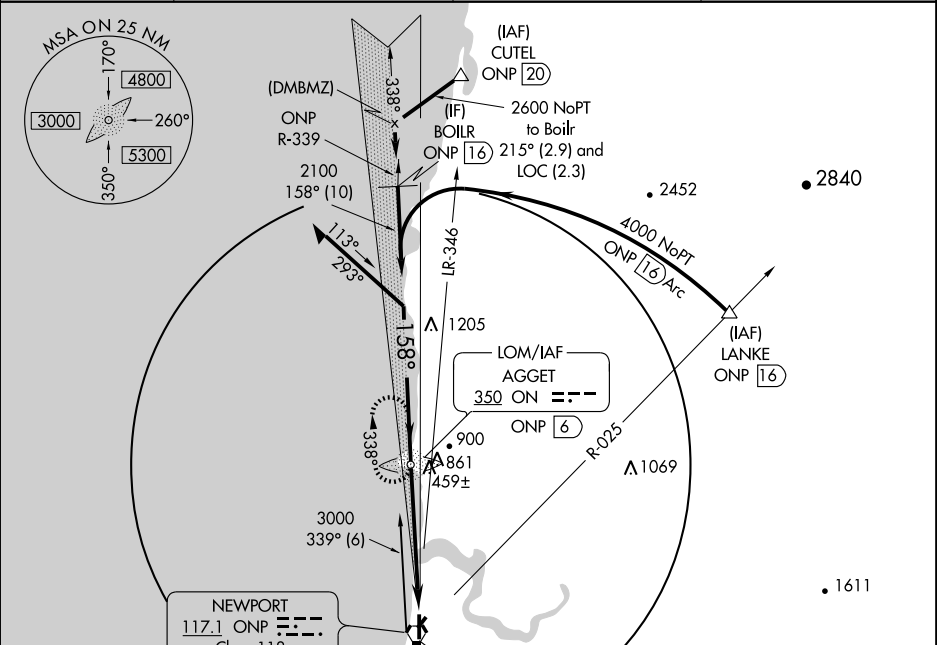


LOC I-ONP	APP CRS	Rwy Idg	5398
111.5	158°	TDZE	151
		Apt Elev	160

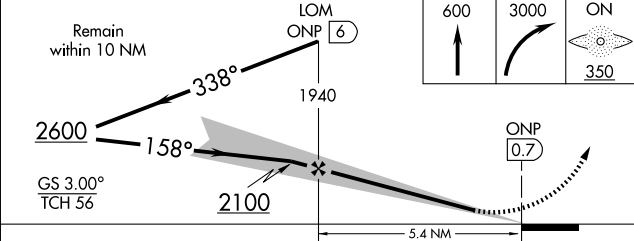
ILS or LOC RWY 16
NEWPORT MUNI (ONP)

NA	MALSR 	MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct AGGET LOM/ONP 6 DME and hold.
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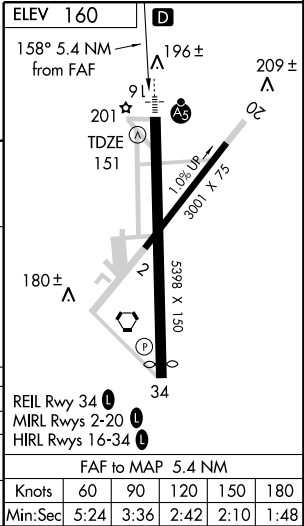
AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF)
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ADF REQUIRED



CATEGORY	A	B	C	D
S-ILS 16		351-3/4 200 (200-3/4)		
S-LOC 16	720-3/4 569 (600-3/4)		720-1 569 (600-13/4)	720-13/4 569 (600-13/4)
CIRCLING	880-1 720 (800-1)		880-2 720 (800-2)	960-2 800 (800-2 1/2)



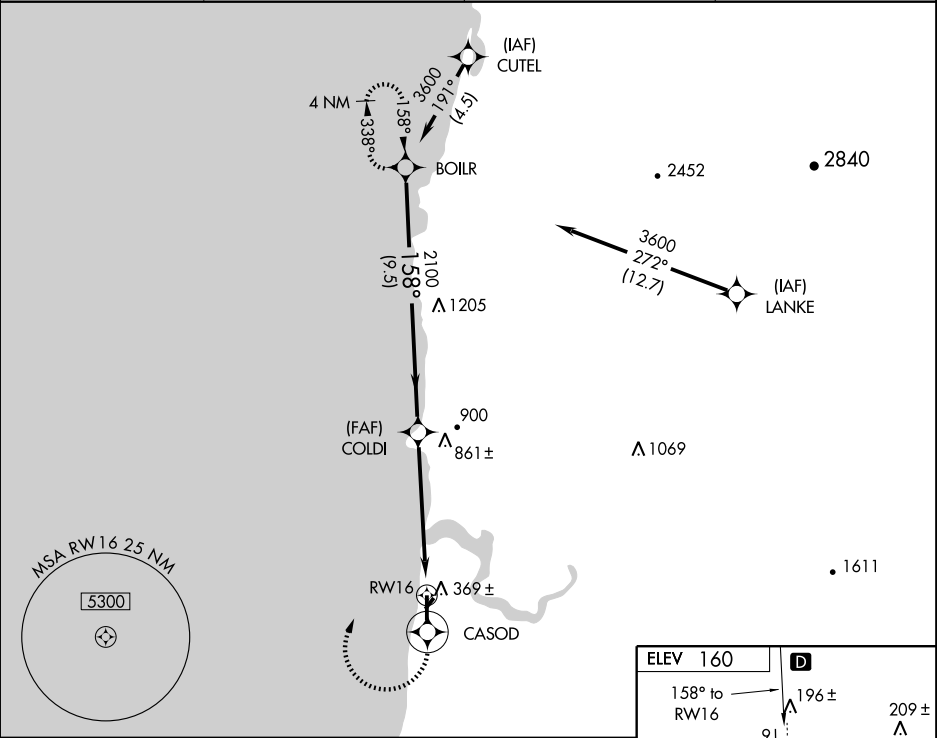
APP CRS	Rwy Idg	5398
158°	TDZE	151
	Apt Elev	160

RNAV (GPS) RWY 16

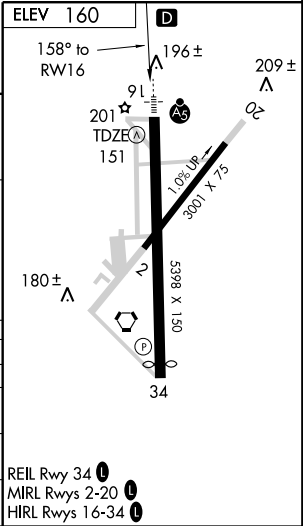
NEWPORT MUNI (ONP)

NA Inoperative table does not apply to LNAV/VNAV, GPS or RNP-0.3 required. DME/DME RNP-0.3 NA. Baro-VNAV NA below -15°C (5°F).	MALSR A5	MISSED APPROACH: Climb to 800 via 158° course to CASOD WP then climbing right to 3600 direct BOILR WP and hold.
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AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 0
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Procedure Turn NA	BOILR	800	CASOD	3600	BOILR
		158°			
GS 3.00° TCH 56	3600	158°	COLDI	2100	RW16
	9.5 NM		5.8 NM		
CATEGORY	A	B	C	D	
GLS PA DA	NA				
LNAV/VNAV DA	620-1½ 469 (500-1½)				
LNAV MDA	720-¾ 569 (600-¾)		720-1½ 569 (600-1½)		720-1¾ 569 (600-1¾)
CIRCLING	880-1½ 720 (800-1½)		880-2 720 (800-2)		960-2½ 800 (800-2½)



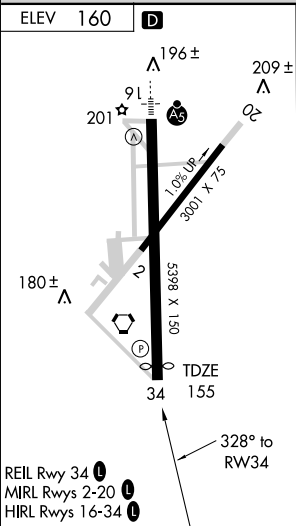
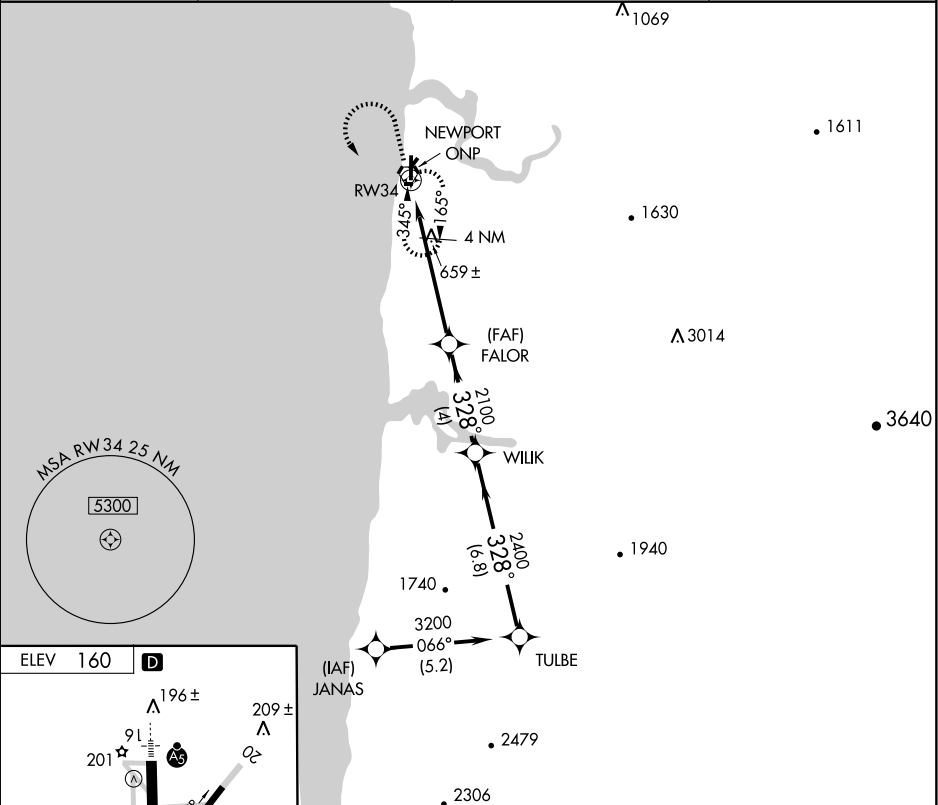
APP CRS	Rwy Idg	5098
328°	TDZE	155
	Apt Elev	160

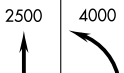
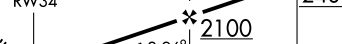
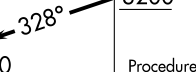
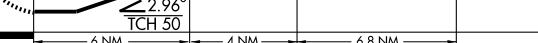
RNAV (GPS) RWY 34

NEWPORT MUNI (ONP)

 NA	GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 2500, then climbing left turn to 4000 direct ONP VORTAC and hold.
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AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 
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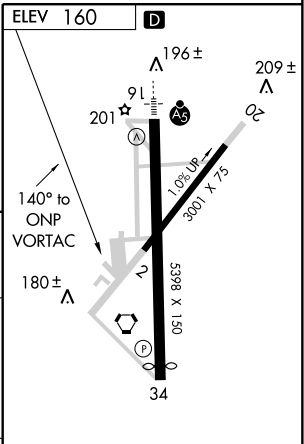
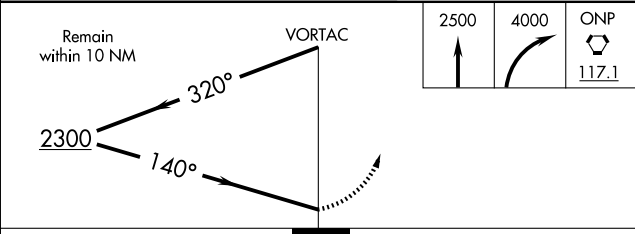
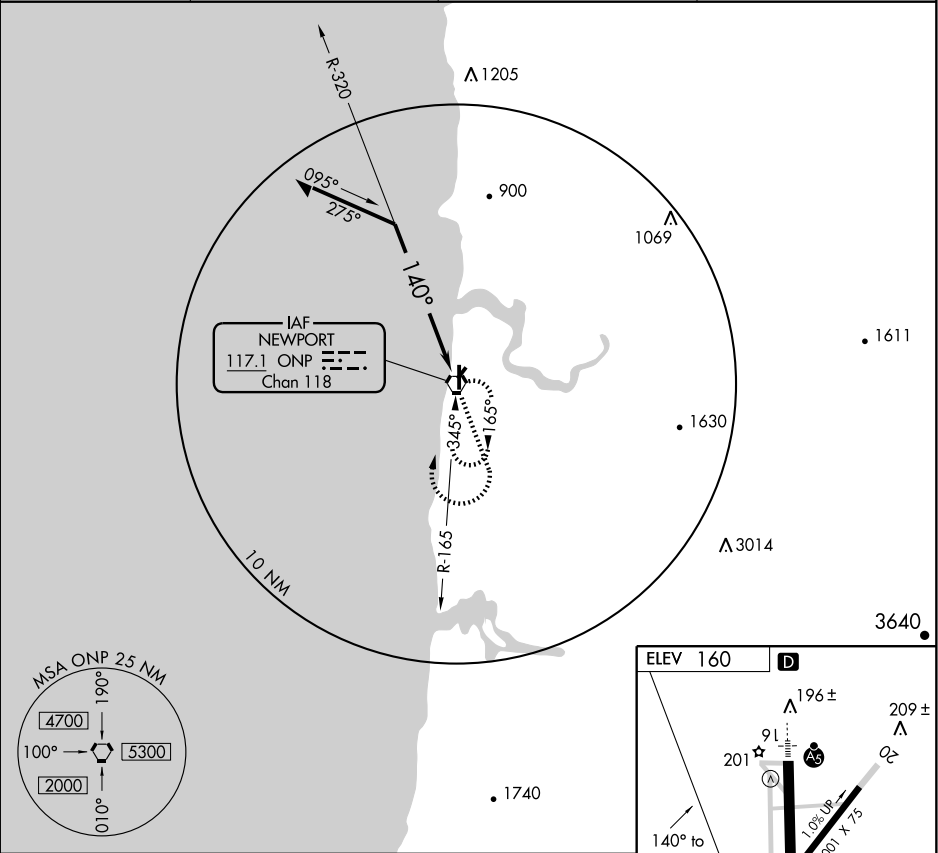
				
				
				
				
CATEGORY	A	B	C	D
LNAV MDA	920-1 765 (800-1)	920-1¼ 765 (800-1¼)	920-2¼ 765 (800-2¼)	920-2½ 765 (800-2½)
CIRCLING	920-1 760 (800-1)	920-1¼ 760 (800-1¼)	920-2¼ 760 (800-2¼)	960-2½ 800 (800-2½)

VORTAC ONP 117.1 Chan 118	APP CRS 140°	Rwy Idg TDZE Apt Elev	N/A N/A 160
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VOR-A
NEWPORT MUNI (ONP)

 NA	MISSED APPROACH: Climb to 2500, then climbing right turn to 4000, direct ONP VORTAC and hold.
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AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 
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CATEGORY	A	B	C	D
CIRCLING	1160-1¼ 1000 (1000-1¼)	1160-1½ 1000 (1000-1½)	1160-3	1000 (1000-3)

REIL Rwy 34 
MIRL Rwy 2-20 
HIRL Rwy 16-34 

VORTAC ONP	APP CRS	Rwy Idg	5398
<u>117.1</u>	166°	TDZE	151
Chan 118		Apt Elev	160

VOR/DME RWY 16
NEWPORT MUNI (ONP)

T
A NA Inoperative table does not apply to MALSF Rwy 16.

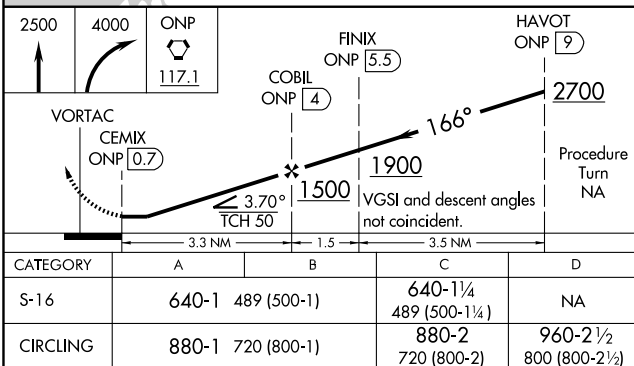
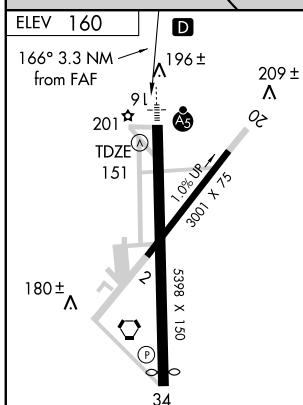
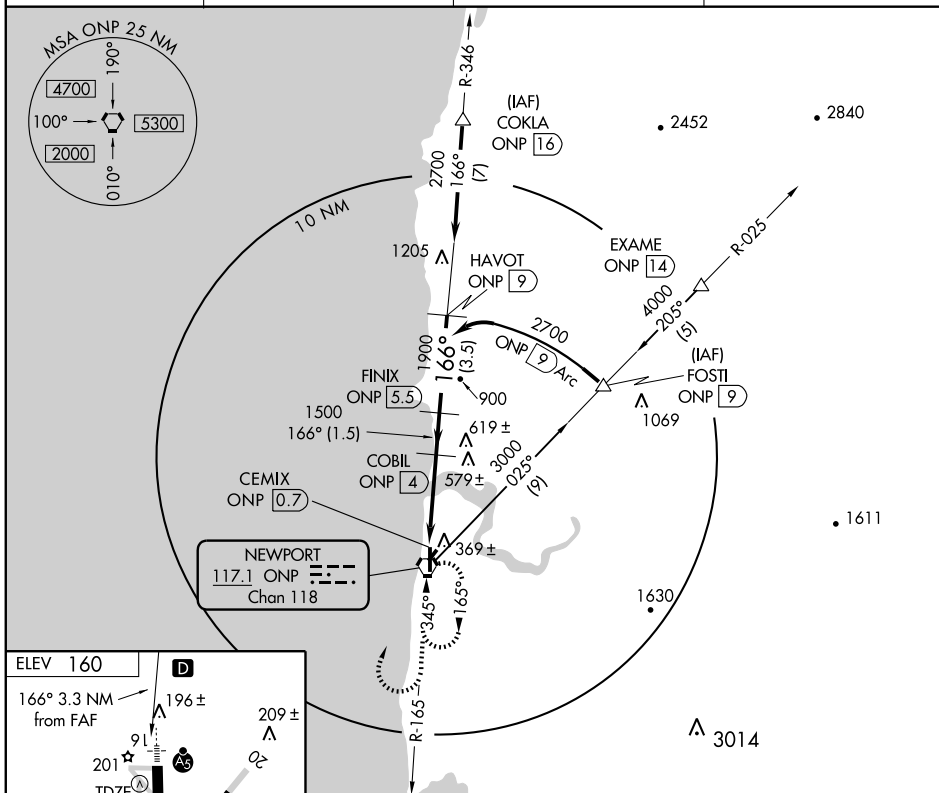
MALSR

MISSED APPROACH: Climb to 2500, then climbing right turn to 4000, direct ONP VORTAC and hold.

AWOS-3
133.9

SEATTLE CENTER
125.8 291.7

MCMINNIVILLE RADIO
122.5

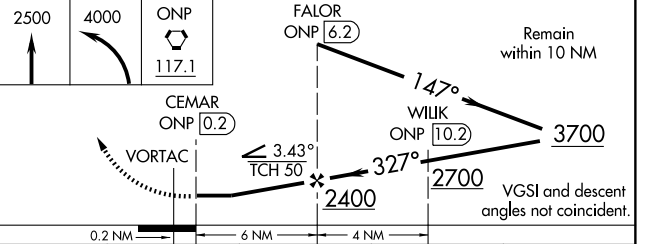
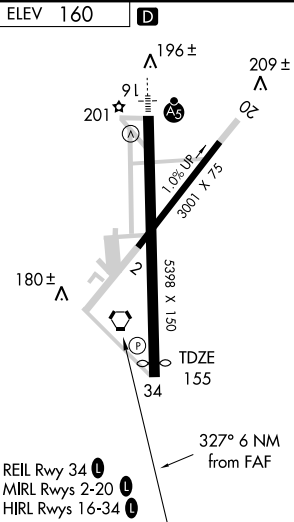
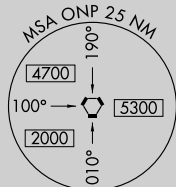
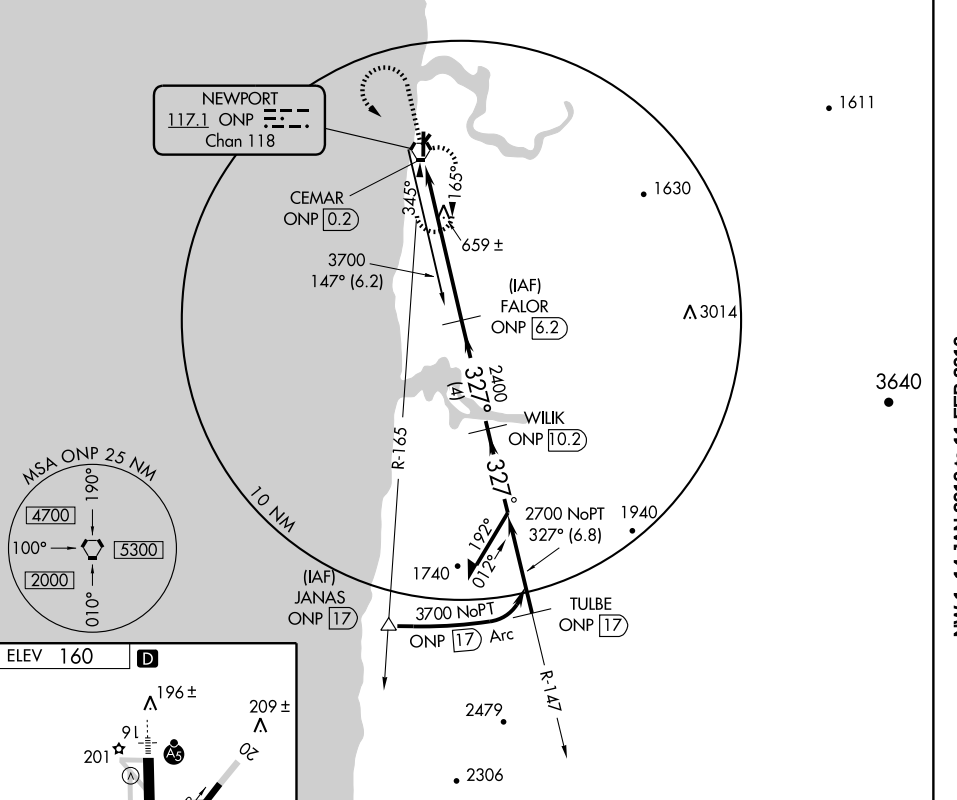
UNICOM
122.8 (CTAF) **L**

▼

▲ NA

MISSED APPROACH: Climb to 2500 then climbing left turn to 4000 direct ONP VORTAC and hold.

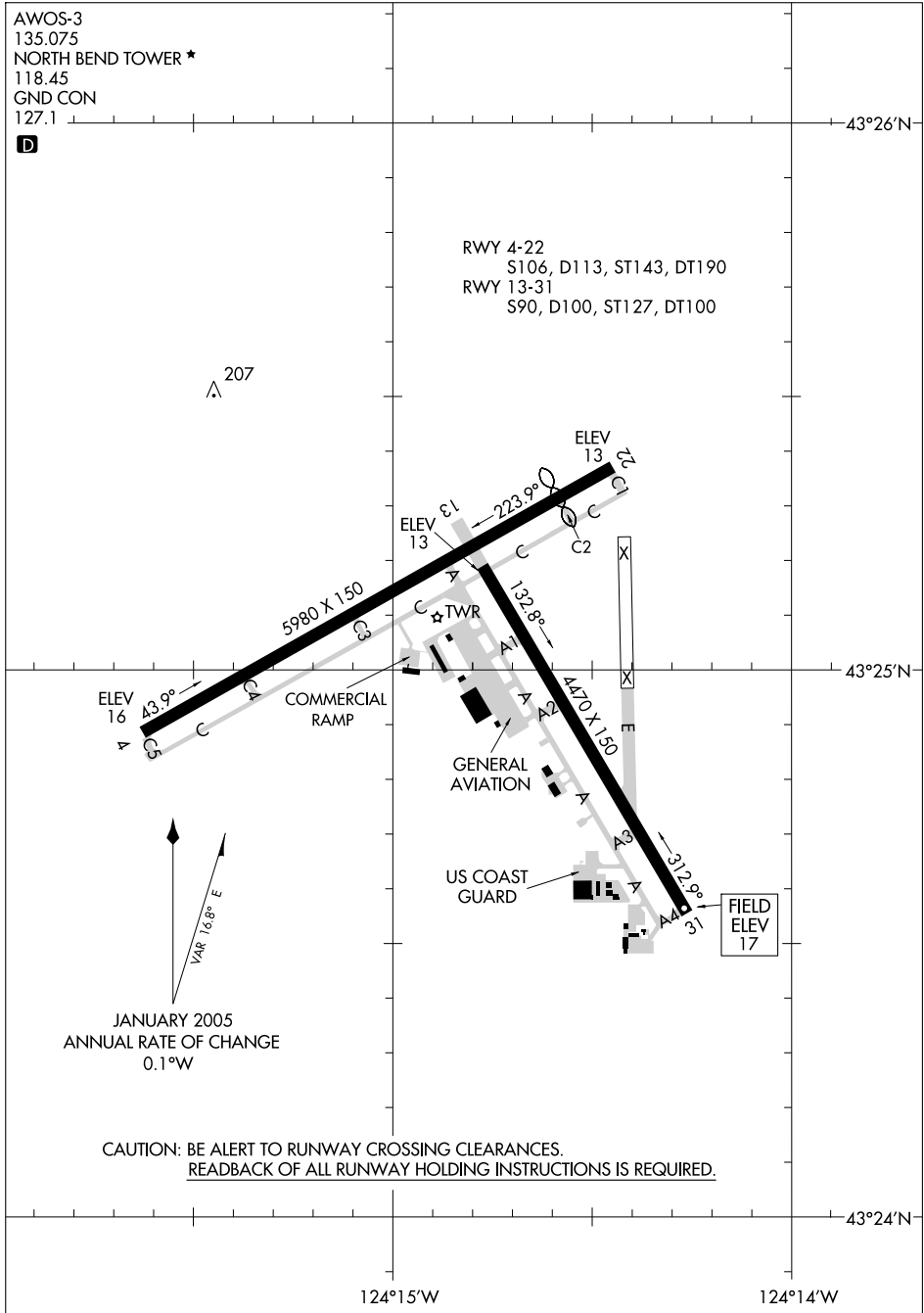
AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-34	920-1 765 (800-1)	920-1¼ 765 (800-1¼)	920-2¼ 765 (800-2¼)	920-2½ 765 (800-2½)
CIRCLING	920-1 760 (800-1)	920-1¼ 760 (800-1¼)	920-2¼ 760 (800-2¼)	960-2½ 800 (800-2½)

AIRPORT DIAGRAM

NORTH BEND/SOUTHWEST OREGON RGNL (OTH)
AL-929 (FAA) NORTH BEND, OREGON

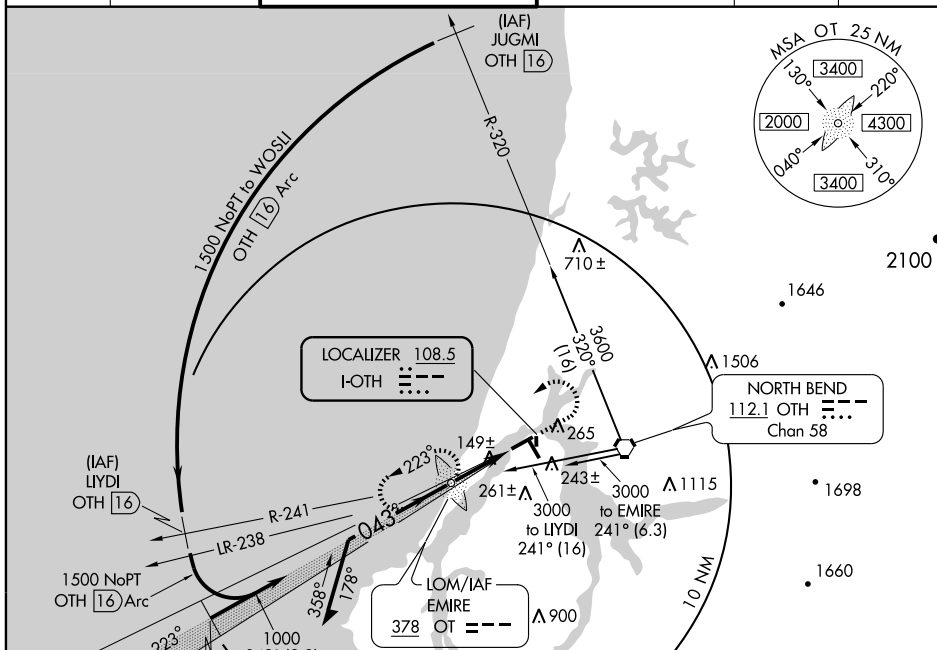


LOC I-OTH <u>108.5</u>	APP CRS 043°	Rwy Idg TDZE Apt Elev	5321 16 17
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COPTER ILS or LOC RWY 4

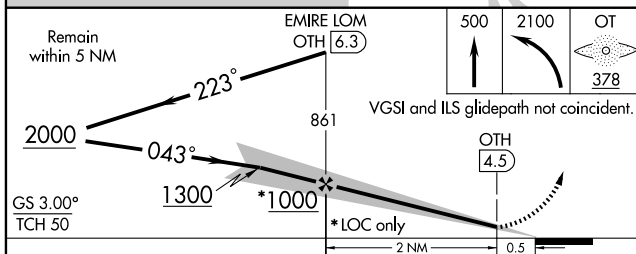
NORTH BEND/SOUTHWEST OREGON RGNL (OTH)

▼ ADF required. If local altimeter setting not received, procedure NA. US Coast Guard use only.	MALSR A5	
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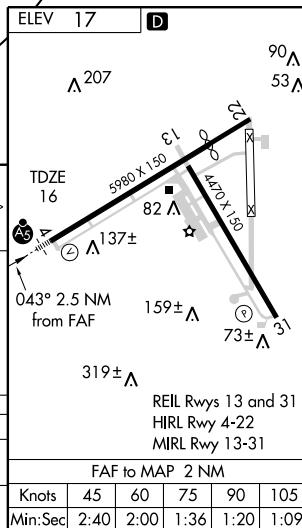


NW-1. 14 JAN 2010 to 11 FEB 2010

ADF or DME REQUIRED

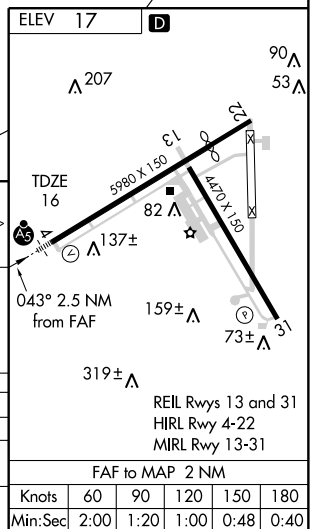


CATEGORY	COPTER	B	C	D
H-ILS 4	216- $\frac{1}{2}$ 200 (200- $\frac{1}{2}$)	NA		
H-LOC 4	400- $\frac{1}{2}$ 384 (400- $\frac{1}{2}$)	NA		



NORTH BEND/ SOUTHWEST OREGON RGNL (OTH)

ADF REQUIRED



LOM OT 378	APP CRS 043°	Rwy Idg TDZE Apt Elev	5321 16 17
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NDB or GPS RWY 4

NORTH BEND/ SOUTHWEST OREGON RGNL (OTH)

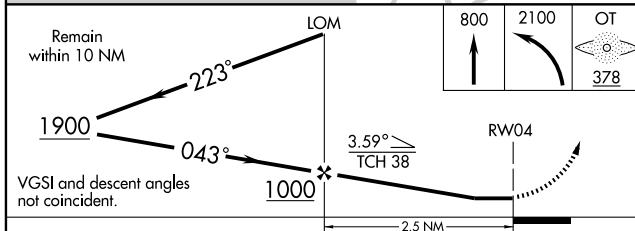
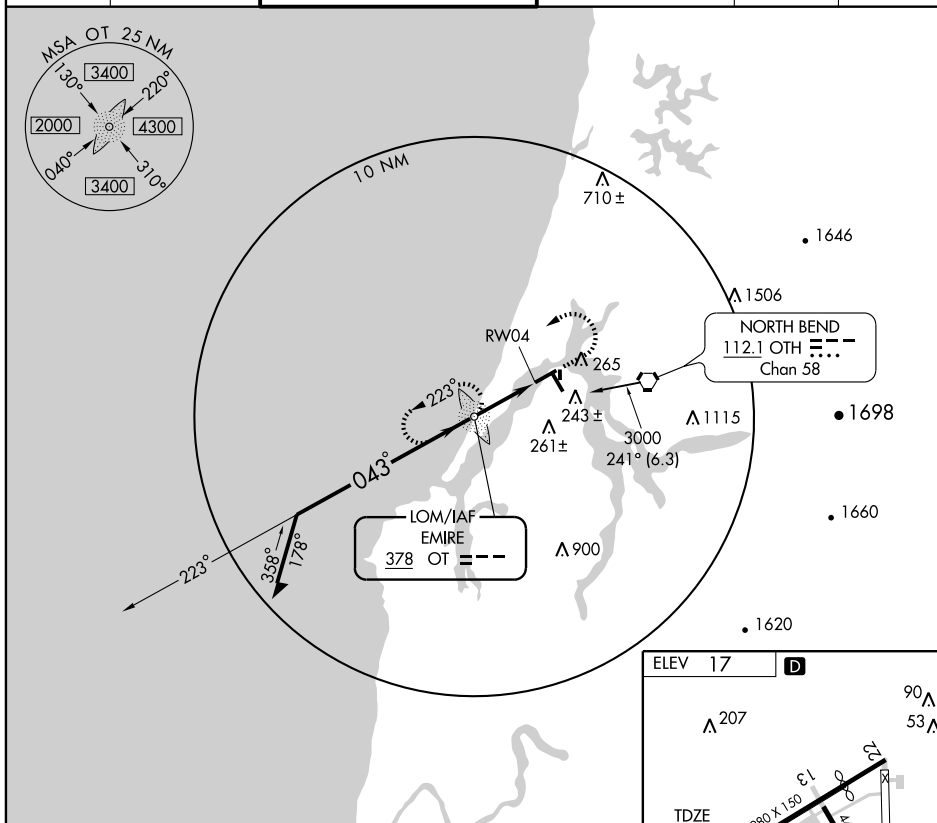


MALSR

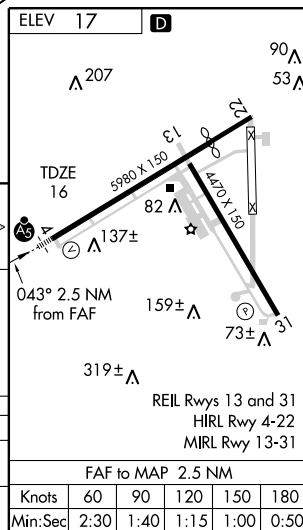


MISSED APPROACH: Climb to 800, then climbing left turn to 2100 direct EMIRE (OT) LOM and hold, continue climb-in-hold to 2100.

AWOS-3 135.075	SEATTLE CENTER 121.4 254.35	SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0	MC MINNVILLE RADIO 122.4 255.4	GND CON 127.1	UNICOM 122.7
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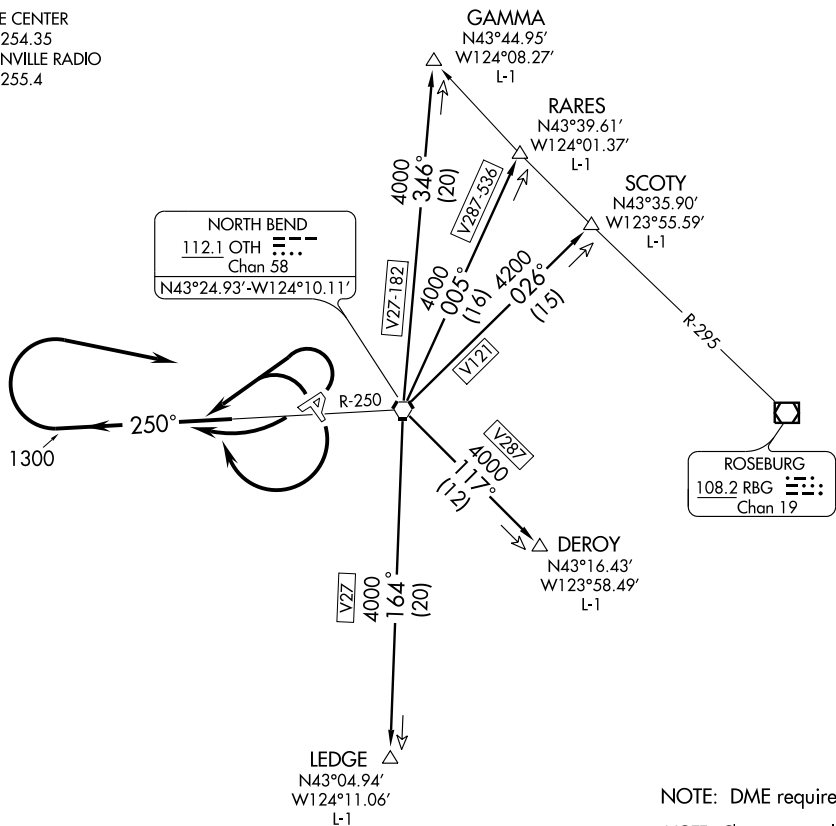


CATEGORY	A	B	C	D
S-4	660-1	644 (700-1)	660-1½ 644 (700-1¾)	660-2 644 (700-2)
CIRCLING	740-1 723 (800-1)	740-1¼ 723 (800-1¼)	820-2¼ 803 (900-2¼)	1000-3 983 (1000-3)



NORTH BEND FOUR DEPARTURE

SEATTLE CENTER
121.4 254.35
McMINNVILLE RADIO
122.4 255.4



NOTE: DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 31 and 34: Turn left. Thence....

TAKE-OFF RUNWAYS 13, 16 and 22: Turn right. Thence....

....All aircraft climb via OTH R-250 to 1300, then climbing right turn direct OTH VORTAC. Thence via (transition).

DEROY TRANSITION (OTH4.DEROY): From over OTH VORTAC via OTH R-117 to DEROY DME FIX.

GAMMA TRANSITION (OTH4.GAMMA): From over OTH VORTAC via OTH R-346 to GAMMA INT.

LEDGE TRANSITION (OTH4.LEDGE): From over OTH VORTAC via OTH R-164 to LEDGE DME FIX.

RARES TRANSITION (OTH4.RARES): From over OTH VORTAC via OTH R-005 to RARES INT.

SCOTY TRANSITION (OTH4.SCOTY): From over OTH VORTAC via OTH R-026 to SCOTY INT.

AL-929 (FAA)

VORTAC OTH 112.1 Chan 58	APP CRS 254°	Rwy Idg TDZE Apt Elev	N/A N/A 17
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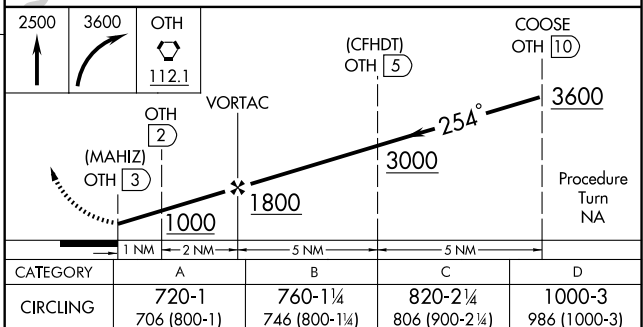
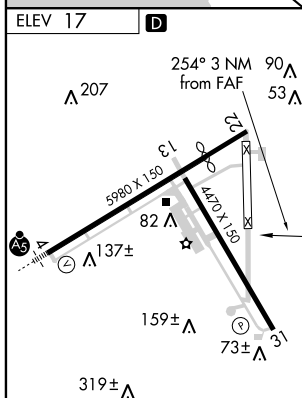
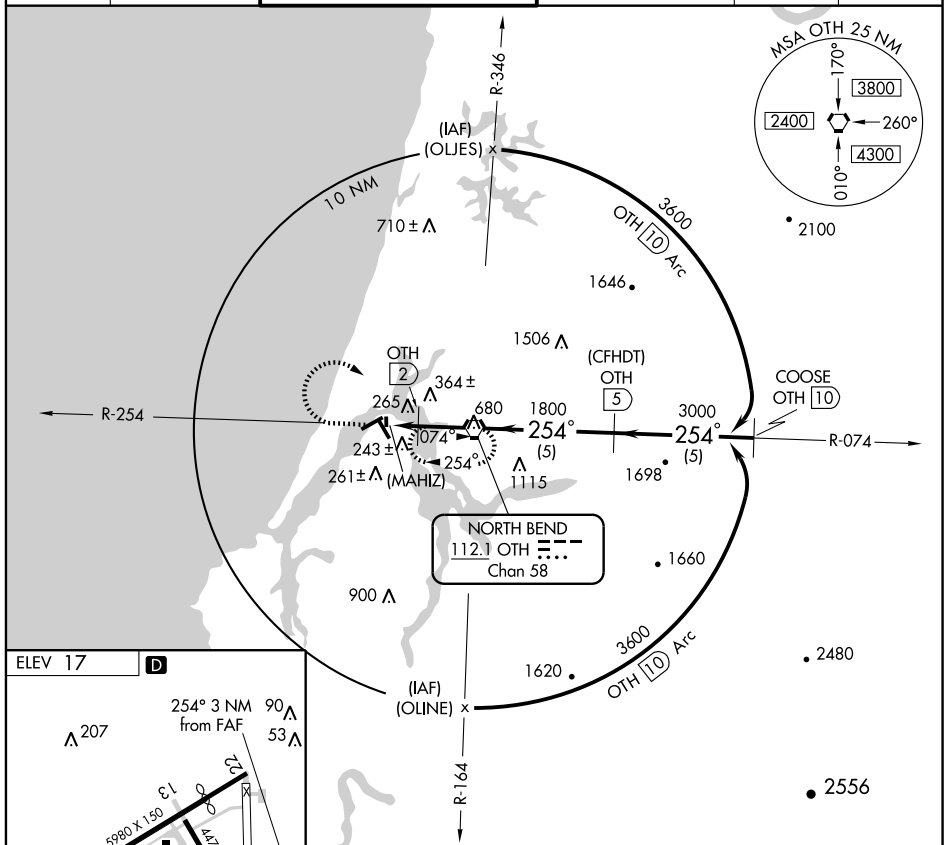
VOR/DME or GPS-B

NORTH BEND/ SOUTHWEST OREGON RGNL (OTH)



MISSED APPROACH: Climb to 2500, then climbing right turn to 3600 direct OTH VORTAC and hold.

AWOS-3 135.075	SEATTLE CENTER 121.4 254.35	SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0	MC MINNVILLE RADIO 122.4 255.4	GND CON 127.1	UNICOM 122.7
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NW-1. 14 JAN 2010 to 11 FEB 2010

REIL Rwy 13 and 31
HIRL Rwy 4-22
MIRL Rwy 13-31

AL-929 (FAA)

VORTAC OTH 112.1 Chan 58	APP CRS 070°	Rwy Idg 5321 TDZE 12 Apt Elev 17
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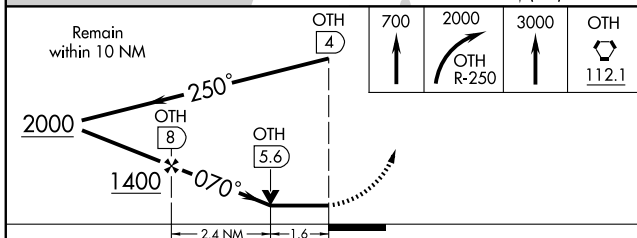
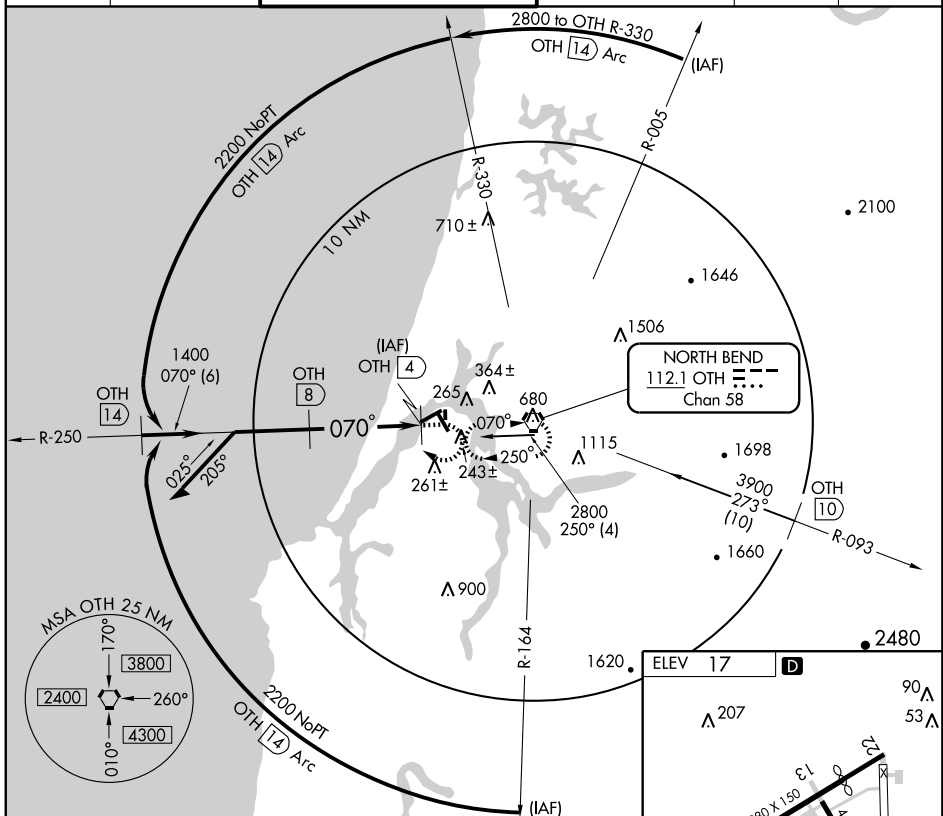
VOR/DME RWY 4

NORTH BEND/SOUTHWEST OREGON RGNL (OTH)

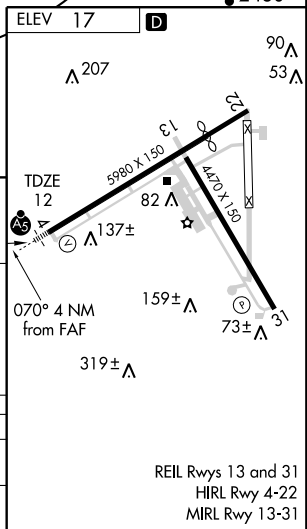


MISSED APPROACH: Climb to 700, then climbing right turn to 2000 via OTH R-250; then climb to 3000 direct OTH VORTAC and hold.

AWOS-3 135.075	SEATTLE CENTER 121.4 254.35	SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0	MC MINNVILLE RADIO 122.4 255.4	GND CON 127.1	UNICOM 122.7
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CATEGORY	A	B	C	D
S-4	540-1 528 (600-1)		540-1½ 528 (600-1½)	540-1¾ 528 (600-1¾)
CIRCLING	720-1 706 (800-1)	760-1¼ 746 (800-1¼)	820-2¼ 806 (900-2¼)	1000-3 986 (1000-3)



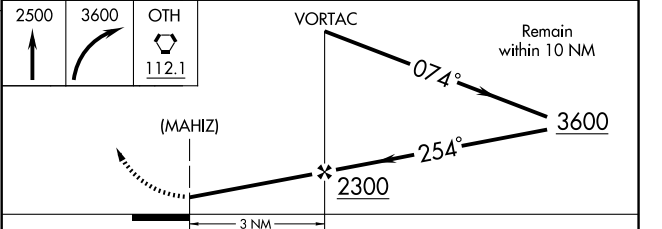
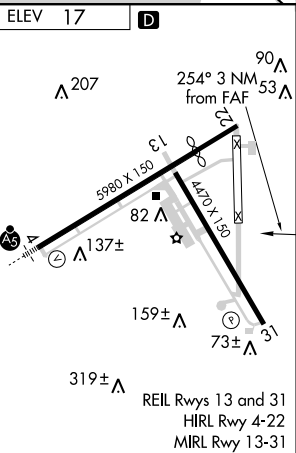
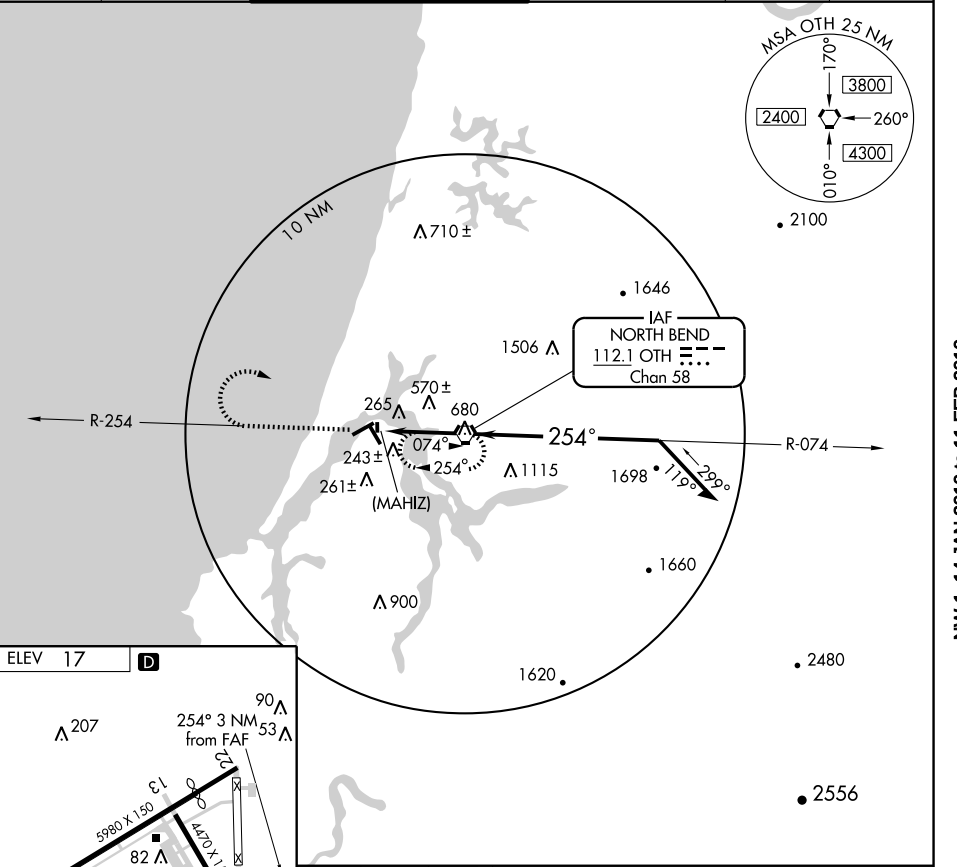
NW-1. 14 JAN 2010 to 11 FEB 2010

▼

▲

MISSED APPROACH: Climb to 2500, then climbing right turn to 3600 direct OTH VORTAC and hold.

AWOS-3 135.075	SEATTLE CENTER 121.4 254.35	SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0	MC MINNVILLE RADIO 122.4 255.4	GND CON 127.1	UNICOM 122.7
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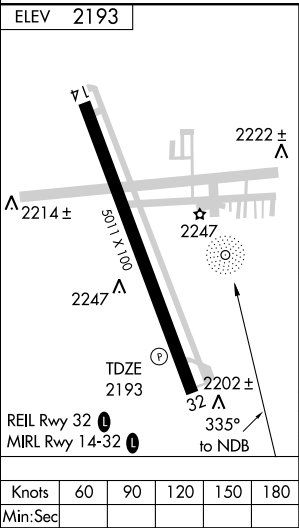
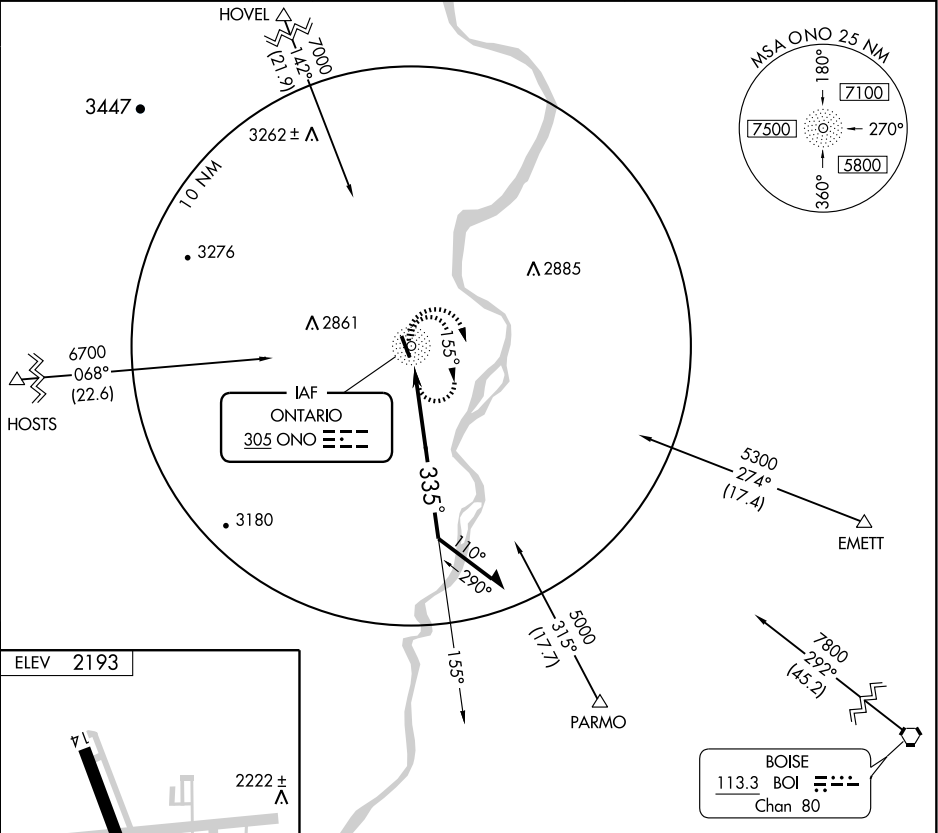
FAF to MAP 3 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1100-1¼ 1086 (1100-1¼)	1100-1½ 1086 (1100-1½)	1100-3	1086 (1100-3)
Min:Sec	3:00	2:00	1:30	1:12	1:00					

NDB ONO	APP CRS	Rwy Idg	5011
305	335°	TDZE	2193
		Apt Elev	2193

NDB RWY 32
ONTARIO MUNI (ONO)

▼ ▲ NA	Visibility reduction by helicopters NA. When local altimeter setting not received, use Caldwell altimeter setting and increase MDA 100 feet.	MISSED APPROACH: Climbing right turn to 4500 in ONO NDB holding pattern.
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ASOS 135.275	SALT LAKE CENTER 128.05 387.15	UNICOM 122.8 (CTAF) 0
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4500	ONO 305	NDB	155°	Remain within 10 NM	4500
			335°		
CATEGORY	A	B	C	D	
S-32	3160-1¼ 967 (1000-1¼)	3160-1½ 967 (1000-1½)	3160-3	967 (1000-3)	
CIRCLING	3160-1¼ 967 (1000-1¼)	3160-1½ 967 (1000-1½)	3160-3	967 (1000-3)	

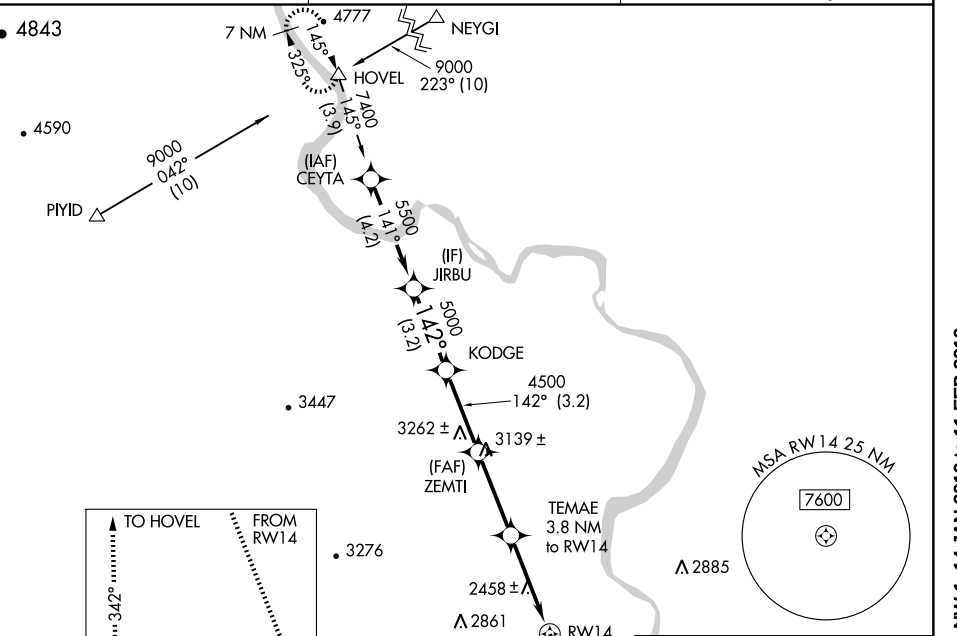
WAAS CH 78207 W14A	APP CRS 142°	Rwy Idg TDZE Apt Elev	5011 2193 2193
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▼ Baro-VNAV NA when using Caldwell altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 45°C (113°F). DME/DME RNP -0.3 NA.

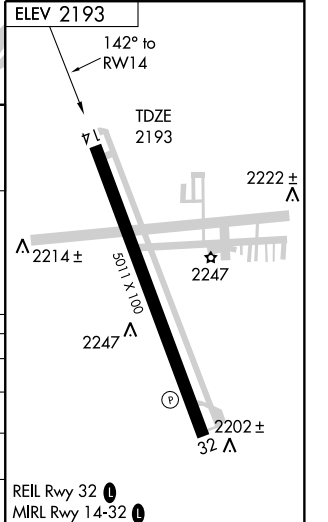
▲ Visibility reduction by helicopters NA. When local altimeter setting not received, use Caldwell altimeter setting and increase DA/MDA 100 feet, and increase LPV visibility ¼ mile all Cats, LNAV/VNAV visibility ½ mile all Cats, LNAV Cat C and D ¼ mile, Circling Cat C ¼ mile.

MISSED APPROACH: Climb to 9000 direct TUCUB and right turn via 241° track to LUYID and right turn via 342° track to HOVEL and hold.

ASOS 135.275	SALT LAKE CENTER 128.05 387.15	UNICOM 122.8 (CTAF) 0
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Procedure Turn NA				
JIRBU	9000	TUCUB	LUYID	HOVEL
5500	142°	5000	241°	342°
GS 3.00° TCH 40				* LNAV only
3.2 NM	3.2 NM	3.2 NM	3.8 NM	
CATEGORY	A	B	C	D
LPV DA	2744-2		551 (600-2)	
LNAV/ DA VNAV	2781-2		588 (600-2)	
LNAV MDA	2720-1	527 (600-1)	2720-1½ 527 (600-1½)	2720-1¾ 527 (600-1¾)
CIRCLING	2720-1 527 (600-1)	2760-1 567 (600-1)	2760-1½ 567 (600-1½)	2760-2 567 (600-2)



NW-1, 14 JAN 2010 to 11 FEB 2010

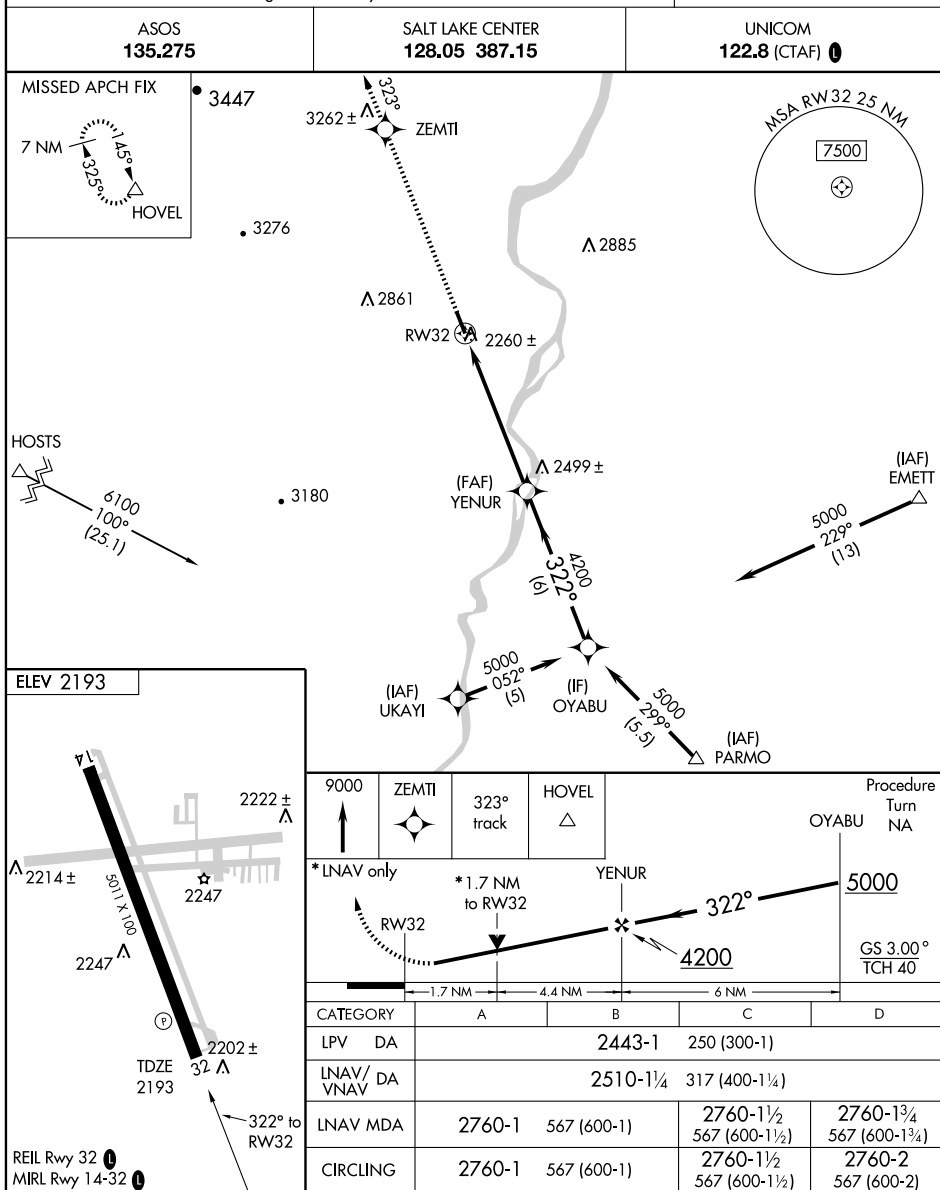
RNAV (GPS) RWY 32

ONTARIO MUNI (ON0)

WAAS CH 87007 W32A	APP CRS 322°	Rwy Idg TDZE Apt Elev	5011 2193 2193
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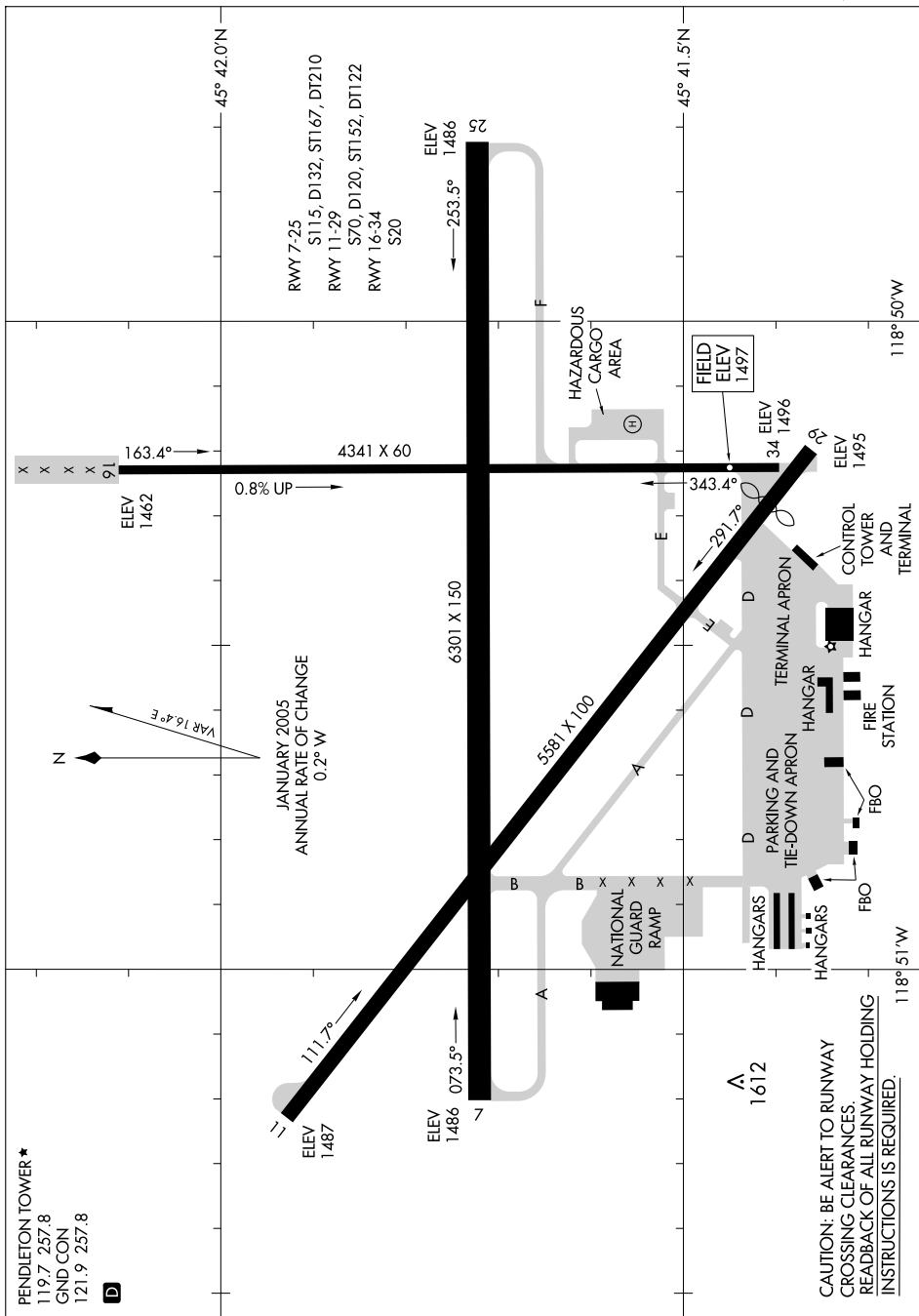
▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F). Baro-VNAV and VDP NA when using Caldwell altimeter setting.
▲ DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
 When local altimeter setting not received, use Caldwell altimeter setting and increase DA/MDA 100 feet, and increase LPV and LNAV/VNAV visibility ¼ mile all Cats, LNAV Cat C and D and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 9000 direct ZEMTI and via 323° track to HOVEL and hold, continue climb-in-hold to 9000.



AIRPORT DIAGRAM

PENDLETON / EASTERN OREGON RGNL (PDT)
AL-316 (FAA)
PENDLETON, OREGON



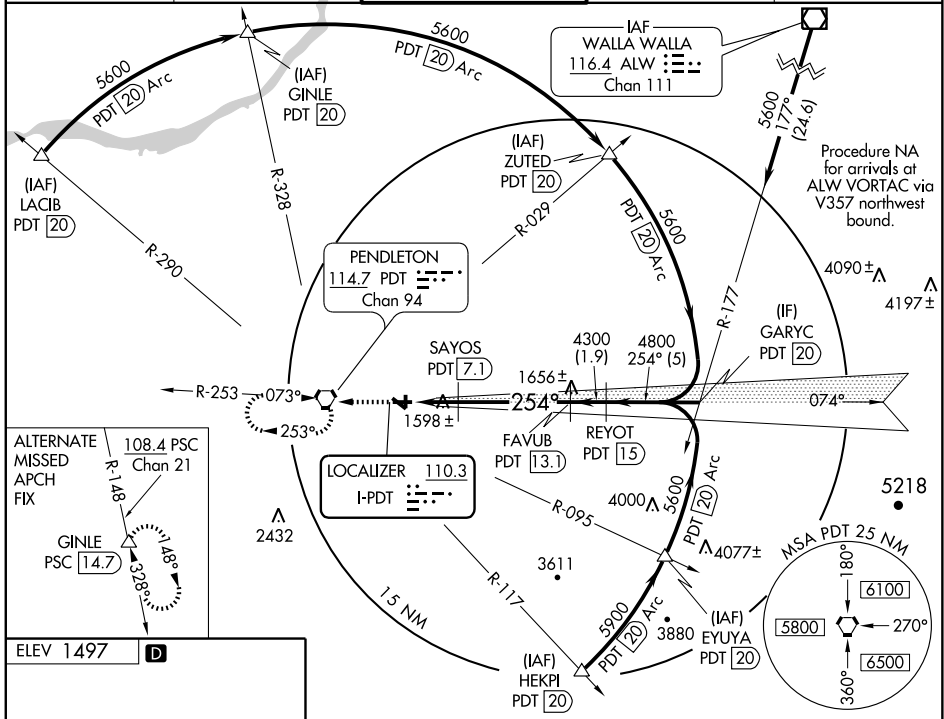
NW-1. 14 JAN 2010 to 11 FEB 2010

ILS or LOC/DME RWY 25

PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

LOC I-PDT 110.3	APP CRS 254°	Rwy Idg 6301 TDZE 1487 Apt Elev 1497	DME from PDT VORTAC. Simultaneous reception of I-PDT and PDT VORTAC DME required. When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and S-LOC 25 Cat C/D visibility ¼ mile. For inoperative MALS when using Walla Walla altimeter setting increase S-ILS 25 visibility all Cats to 1 mile. ** RVR 1800 authorized with the use of FD or AP or HUD to DA, NA when using Walla Walla altimeter setting.	MALS 	MISSED APPROACH: Climb to 4000 direct PDT VORTAC and hold, continue climb-in-hold to 4000.
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ASOS 118.325	CHINOOK APP CON * 133.15 379.15	PENDLETON TOWER * 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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4000 PDT 114.7	VGSI and ILS glidepath not coincident.	FAVUB PDT [13.1]	REYOT PDT [15]	GARYC PDT [20]
* LOC only	SAYOS PDT [7.1]	4300	254°	5600
2320*	4300	4800	254°	5600
2.5	6 NM	1.9 NM	5 NM	
CATEGORY	A	B	C	D
S-ILS 25	** 1687/24 200 (200-½)			
S-LOC 25	1860/24 373 (400-½)			1860/40 373 (400-¾)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)

WAAS CH 73012 W07A	APP CRS 074°	Rwy Idg TDZE Apt Elev	6301 1486 1497
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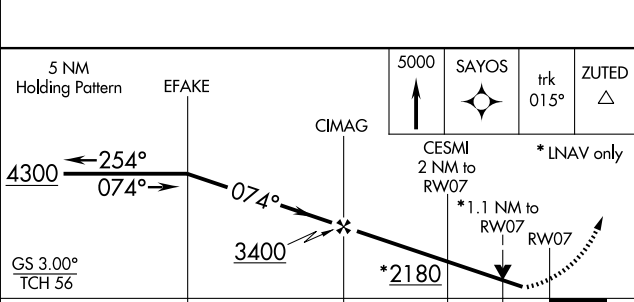
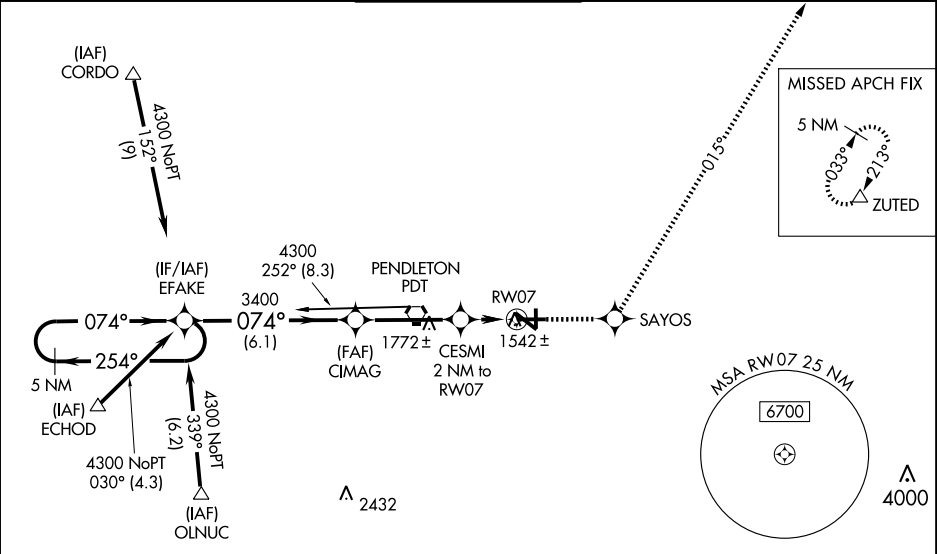
RNAV (GPS) RWY 7
PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

⚠ Inoperative table does not apply to LNAV/VNAV all Cats.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
VDP and Baro-VNAV NA when using Walla Walla altimeter setting. When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and all visibilities ¾ mile. Inoperative table does not apply.

ODALS

MISSED APPROACH: Climb to 5000 direct SAYOS and via track 015° to ZUTED and hold.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	1736-¾	250 (300-¾)		
LNAV/VNAV DA	1834-1¼	348 (400-1¼)		
LNAV MDA	1880-¾	394 (400-¾)		1880-1¼ 394 (400-1¼)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)

ELEV 1497 **D**

This detailed chart shows the flight path and altitudes for the RNAV (GPS) RWY 7 approach. Key features include:
- **5 NM Holding Pattern**: Located at EFAKE, 254° heading.
- **Navigation Aids**: (IAF) EFAKE, (FAF) CIMAG, and SAYOS.
- **Altitudes**: 4300, 3400, 2180, 1542±, 1500, 1486, 1612, 1601, 1559.
- **Distances**: 6.1 NM, 3.7 NM, 0.9 NM, 1.1 NM.
- **Obstacles**: 2432, 4000.
- **MSA**: Minimum Safe Altitude for RWY 25 NM, 6700 feet.

REIL Rwy 11 and 29 **L**
MIRL Rwy 11-29 **L**
HIRL Rwy 7-25 **L**

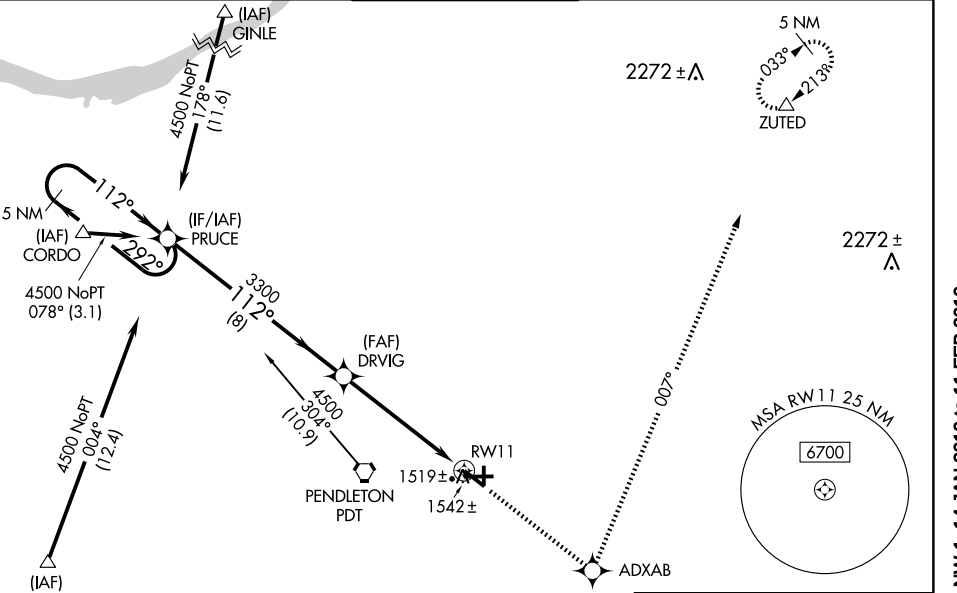
WAAS CH 82712 W11A	APP CRS 112°	Rwy Idg TDZE Apt Elev	5581 1487 1497
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⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.

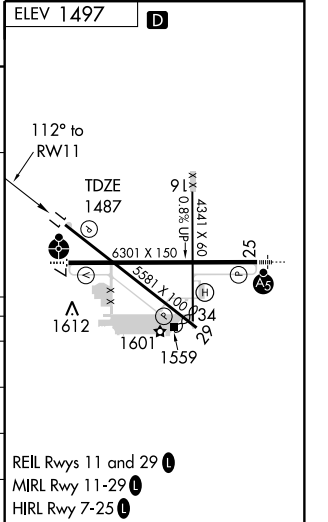
⚠ When local altimeter setting not received, use Walla Walla altimeter setting: increase all DA/MDA 120 feet and visibility LPV all Cats ¼ mile, LNAV/VNAV all Cats ½ mile, LNAV Cats C and D ¼ mile and Circling Cat D ¼ mile. VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

MISSED APPROACH: Climb to 5000 direct ADXAB and left turn via track 007° to ZUTED and hold.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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5 NM Holding Pattern				
PRUCE				
5000				
ADXAB				
ZUTED				
*1 NM to RW11				
*LNAV only				
RW11				
8 NM				
4.5 NM				
1 NM				
CATEGORY	A	B	C	D
LPV DA	1737-1 250 (300-1)			
LNAV/VNAV DA	1850-1¼ 363 (400-1¼)			
LNAV MDA	1860-1 373 (400-1)			1860-1¼ 373 (400-1¼)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)



NW-1. 14 JAN 2010 to 11 FEB 2010

WAAS CH 78412 W25A	APP CRS 254°	Rwy Idg TDZE Apt Elev	6301 1487 1497
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RNAV (GPS) RWY 25

PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

▼ For inoperative MALS, increase LNAV/VNAV Cat D visibility to RVR 5000, and LNAV Cat D to RVR 6000.
▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and all visibilities 1 mile; inoperative table does not apply. VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

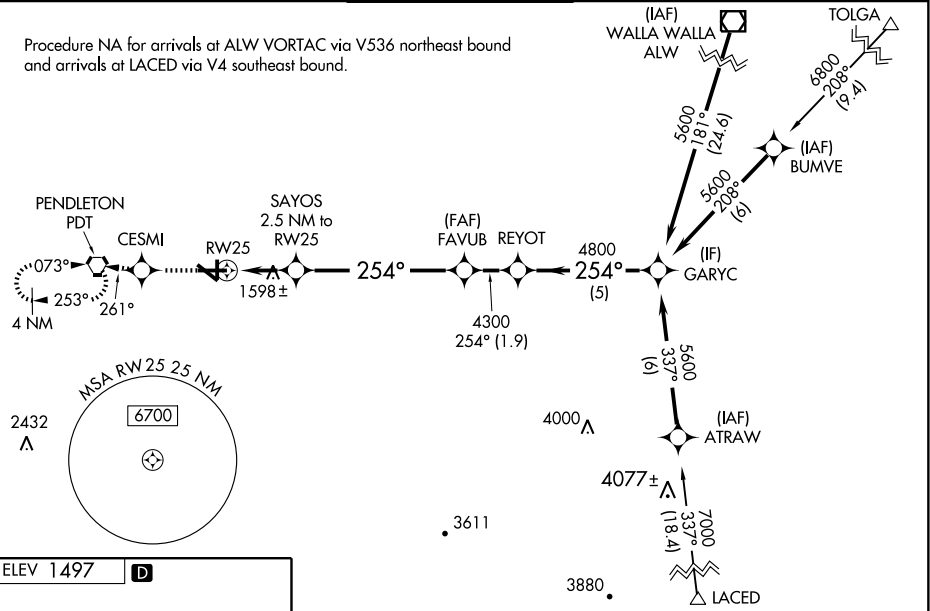
MALS



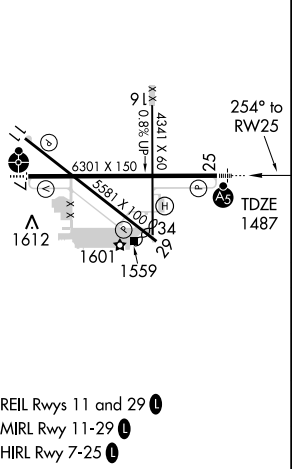
MISSED APPROACH: Climb to 4000 direct CESMI and via track 261° to PDT VORTAC and hold, continue climb-in-hold to 4000.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 257.8	GND CON 121.9 257.8	UNICOM 122.95
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Procedure NA for arrivals at ALW VORTAC via V536 northeast bound and arrivals at LACED via V4 southeast bound.



ELEV 1497	D
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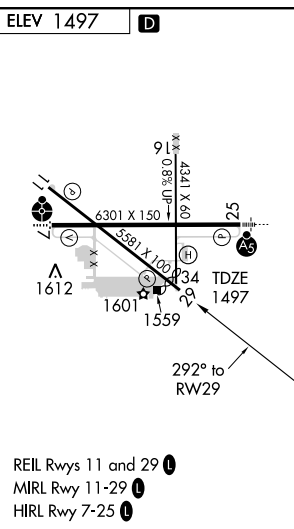
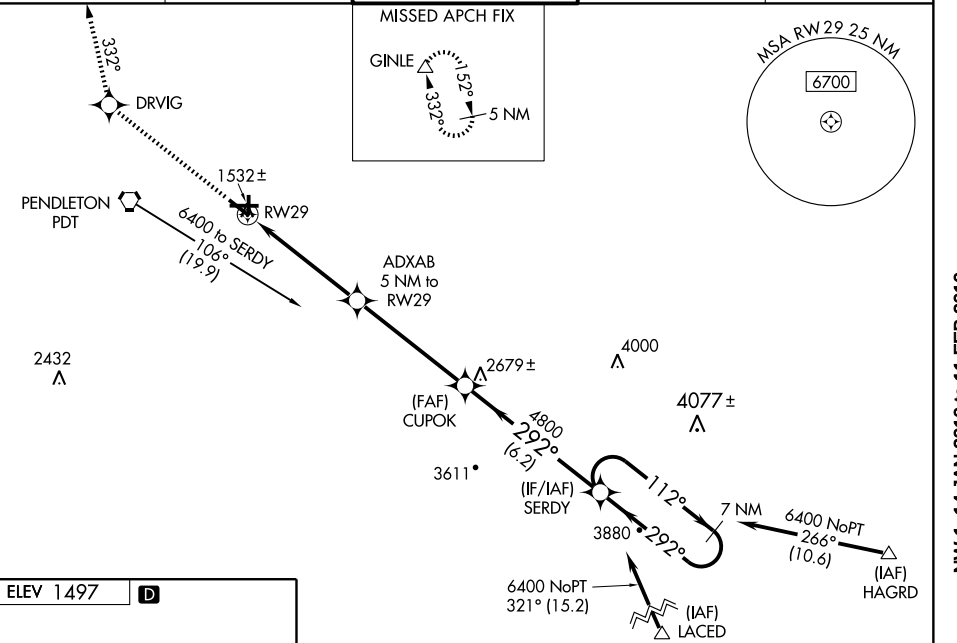
4000	CESMI	trk 261°	PDT	VGSI and RNAV glidepath not coincident.
*LNAV only	SAYOS 2.5 NM to RW25	FAVUB	REYOT	GARYC
1.1 NM to RW25	2320	4300	5600	Procedure Turn NA
1.1 NM	1.4 NM	6 NM	1.9 NM	5 NM
CATEGORY	A	B	C	D
LPV DA	1687/24 200 (200-½)			
LNAV/VNAV DA	1800/24 313 (400-½)			1800/40 313 (400-¾)
LNAV MDA	1860/24 373 (400-½)			1860/50 373 (400-1)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)

REIL Rwy 11 and 29
MIRL Rwy 11-29
HIRL Rwy 7-25

⚠ Inoperative table does not apply.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.
When local altimeter setting not received, use Walla Walla altimeter setting: increase all DA/MDA 120 feet and visibility LPV all Cats ¼ mile, LNAV/VNAV all Cats ½ mile, LNAV Cats C and D ¼ mile and Circling Cat D ¼ mile.
VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

MISSED APPROACH: Climb to 5000 direct DRVIG and via track 332° to GINLE and hold.

ASOS 118.325	CHINOOK APP CON * 133.15 379.15	PENDLETON TOWER * 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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5000	DRVIG	trk 332°	GINLE	VGSI and RNAV glidepath not coincident.			
				7 NM Holding Pattern			
*LNAV only				CUPOK			
				SERDY			
				112° → 6400			
				← 292°			
				GS 3.00° TCH 55			
				0.9 4.1 NM 4.9 NM 6.2 NM			
CATEGORY	A		B		C		D
LPV DA	1747-1		250 (300-1)				
LNAV/VNAV DA	1801-1		304 (400-1)				
LNAV MDA	1860-1		363 (400-1)		1860-1¼ 363 (400-1¼)		
CIRCLING	1920-1 423 (500-1)		1960-1 463 (500-1)		1960-1½ 463 (500-1½)		2060-2 563 (600-2)

REIL Rwy 11 and 29 **Ⓛ**
MIRL Rwy 11-29 **Ⓛ**
HIRL Rwy 7-25 **Ⓛ**

VORTAC PDT 114.7 Chan 94	APP CRS 073°	Rwy Idg TDZE Apt Elev	6301 1486 1497
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VOR RWY 7

PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

▼ Inoperative table does not apply to S-7 Cat C.
Visibility reduction by helicopters NA.

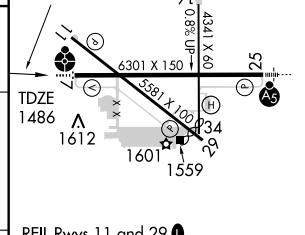
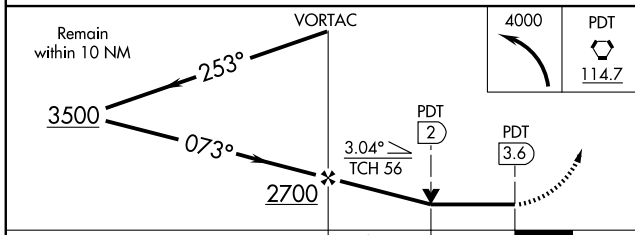
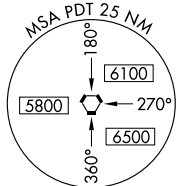
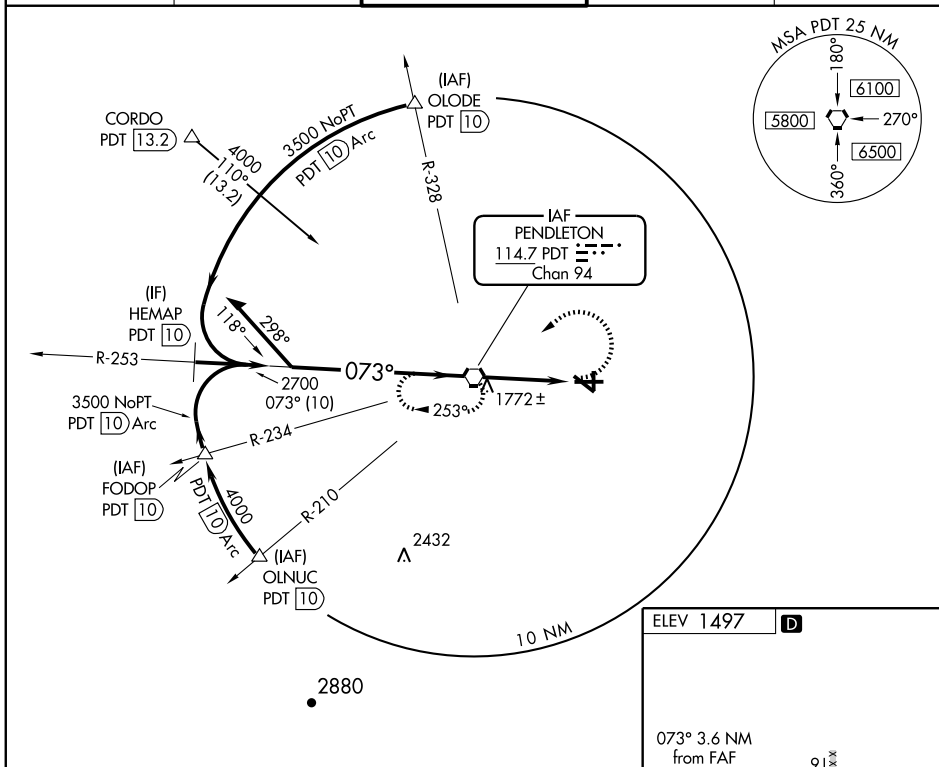
▲ When local altimeter setting not received, use Walla Walla altimeter setting and increase all MDA 120 feet, and all visibilities ½ mile.
Inoperative table does not apply when using Walla Walla altimeter setting.
VDP NA when using Walla Walla altimeter setting.

ODALS



MISSED APPROACH: Climbing left turn to 4000 direct PDT VORTAC and hold, continue climb-in-hold to 4000.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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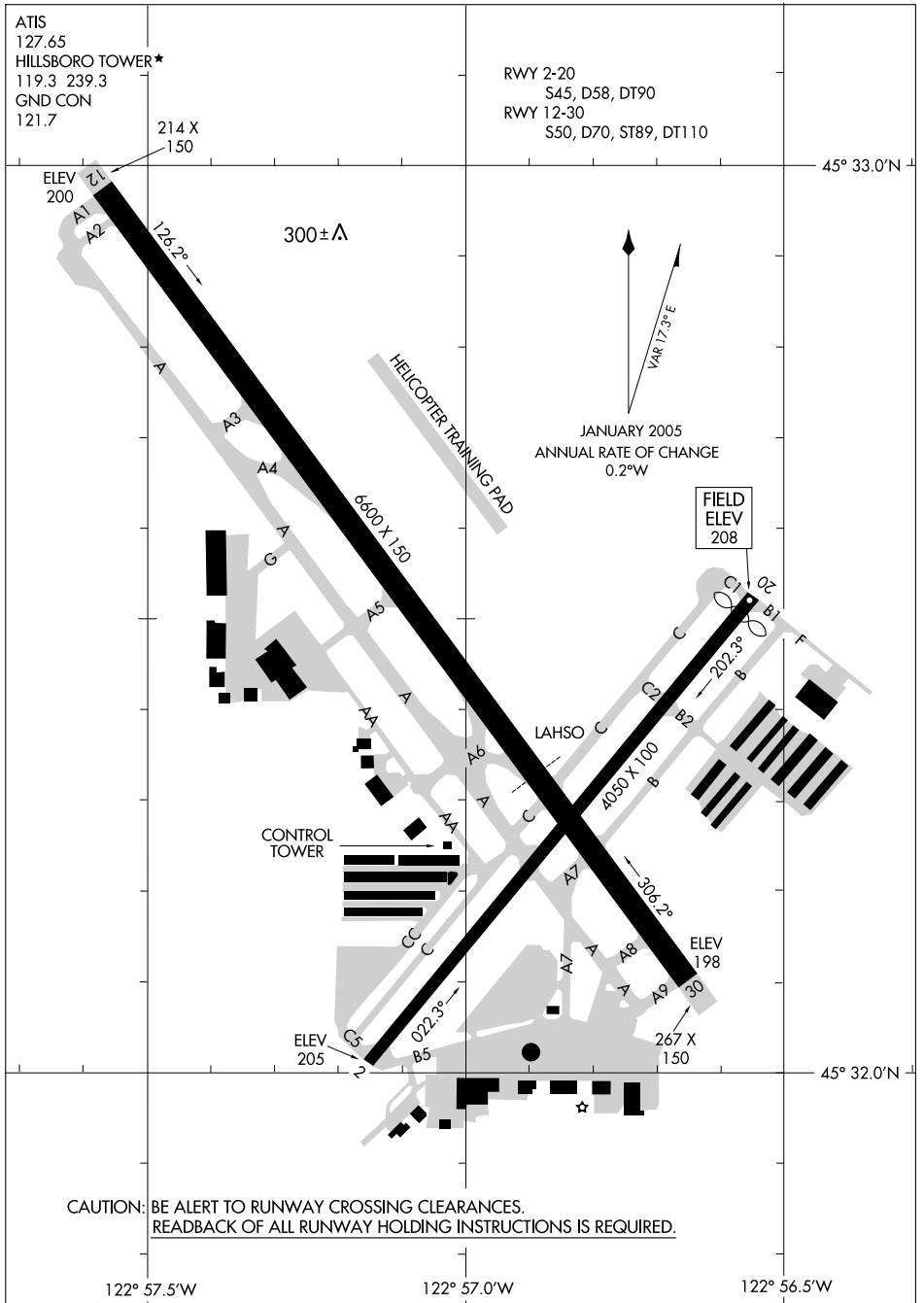


CATEGORY	A	B	C	D
S-7	2040-¾ 554 (600-¾)	2040-1½ 554 (600-1½)	2040-1¾ 554 (600-1¾)	2040-2 554 (600-2)
CIRCLING	2040-1 543 (600-1)	2040-1½ 543 (600-1½)	2040-2 543 (600-2)	2040-2 543 (600-2)

REIL Rwy 11 and 29 1					
MIRL Rwy 11-29 1					
HIRL Rwy 7-25 1					
FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

AIRPORT DIAGRAM

AL-5063 (FAA)

 PORTLAND-HILLSBORO (HIO)
 PORTLAND, OREGON


NW-1, 14 JAN 2010 to 11 FEB 2010

CANBY SEVEN DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)

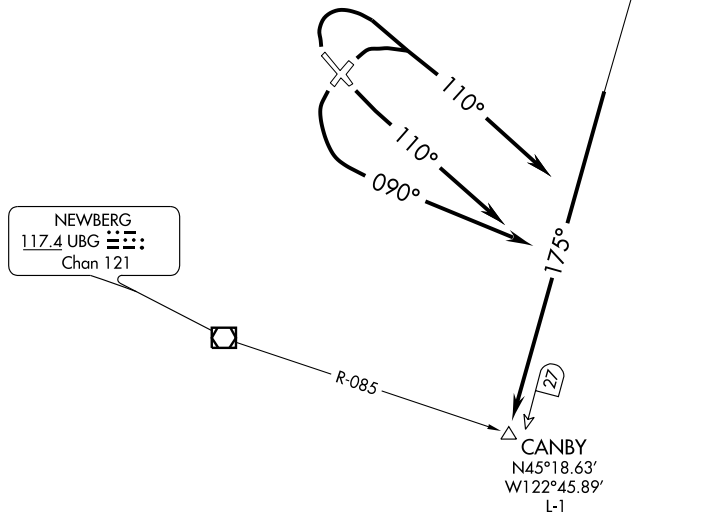
PORTLAND, OREGON

ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6

BATTLEGROUND
116.6 BTG
Chan 113

TAKE-OFF MINIMUMS

Rwy 2: Standard with minimum climb of 307' per NM to 2700.
Rwy 12: Standard with minimum climb of 308' per NM to 2700.
Rwy 20: Standard.
Rwy 30: Standard with minimum climb of 280' per NM to 2700.



TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple roads beginning 246' from DER, 3' right of centerline, up to 15' AGL/220' MSL.
Rwy 12: Multiple trees beginning 1,842' from DER, 222' left of centerline, up to 125' AGL/324' MSL.
Multiple trees beginning 3,629' from DER, 46' right of centerline, up to 143' AGL/332' MSL.
Rwy 20: Multiple trees and pole beginning 967' from DER, 118' left of centerline, up to 93' AGL/292' MSL.
Vent on hangar 63' from DER, 428' left of centerline, 26' AGL/225' MSL.
Multiple trees and antenna on bldg beginning 965' from DER, 449' right of centerline, up to 74' AGL/273' MSL.
Rwy 30: Multiple trees beginning 1,664' from DER, 623' right of centerline, up to 194' AGL/363' MSL.
Pole 702' from DER, 603' left of centerline, 26' AGL/215' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 30: Turn right heading 110°, thence

TAKE-OFF RUNWAY 12: Turn left heading 110°, thence

TAKE-OFF RUNWAY 20: Turn left heading 090°, thence

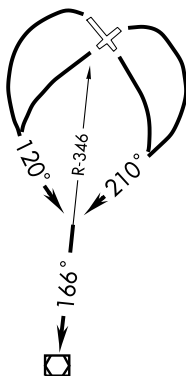
. . . . Intercept and proceed via BTG R-175 to CANBY INT. Thence via (assigned route).

FARMINGTON FOUR DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)
PORTLAND, OREGON

ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6



NEWBERG
117.4 UBG
Chan 121
N45°21.19' W122°58.69'
L-1, H-1

TAKE-OFF MINIMUMS

Rwy 2: Standard with minimum climb of 307' per NM to 2700.

Rwys 12, 20: Standard.

Rwy 30: 200-1¼ or standard with minimum climb of 223' per NM to 500.

Alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1600' prior to departure end of runway.

TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple roads beginning 246' from DER, 3' right of centerline, up to 15' AGL/220' MSL.

Rwy 12: Multiple trees beginning 1,842' from DER, 222' left of centerline, up to 125' AGL/324' MSL.

Multiple trees beginning 3,629' from DER, 46' right of centerline, up to 143' AGL/332' MSL.

Rwy 20: Multiple trees and pole beginning 967' from DER, 118' left of centerline, up to 93' AGL/292' MSL.

Vent on hangar 63' from DER, 428' left of centerline, 26' AGL/225' MSL.

Multiple trees and antenna on bldg beginning 965' from DER, 449' right of centerline, up to 74' AGL/273' MSL.

Rwy 30: Multiple trees beginning 1,664' from DER, 623' right of centerline, up to 194' AGL/363' MSL.

Pole 702' from DER, 603' left of centerline, 26' AGL/215' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 12: Turn right heading 210°, thence

TAKE-OFF RUNWAYS 20, 30: Turn left heading 120°, thence

. . . . Intercept and proceed via UBG R-346 to UBG VOR/DME. Thence via (assigned route).

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

ILS or LOC RWY 12
PORTLAND-HILLSBORO (HIO)

MALSR

MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct UBG VOR/DME and hold.

ELEV 204

123° 8.1 NM from FAF

TDZE 301 199

300±

21

281

266

6500 x 130

4000 x 100

130

REIL Rwy 30

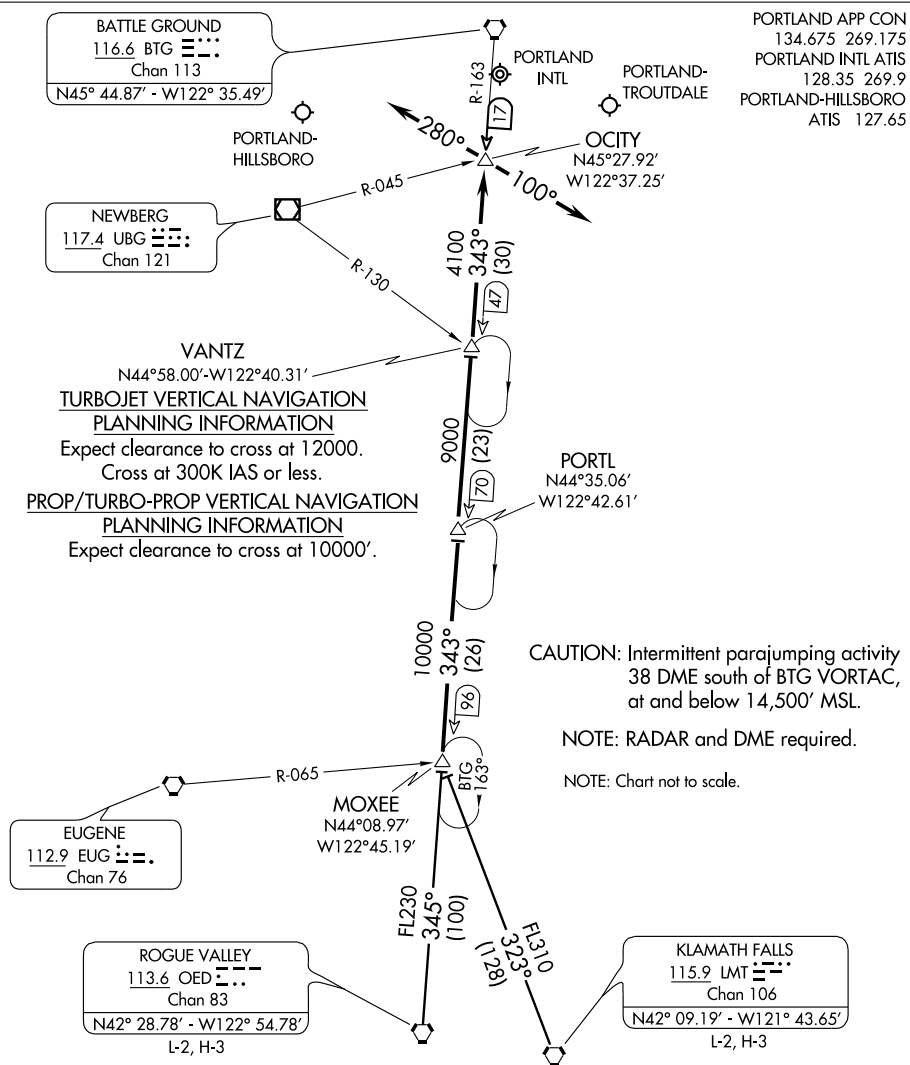
HIRL Rwy 12-30

MIRL Rwy 2-20

FAF to MAP 8.1 NM

	Knots	60	90	120	150	180
Min:Sec	8:06	5:24	4:03	3:14	2:42	

CATEGORY	A	B	C	D
S-ILS 12	399-1/2 200 (200-1/2)			
S-LOC 12	1140-3/4 941 (1000-3/4)	1140-2 1/4 941 (1000-2 1/4)	1140-2 1/2 941 (1000-2 1/2)	
CIRCLING	1140-1 1/4 936 (1000-1 1/4)	1140-2 3/4 936 (1000-2 3/4)	1140-3 936 (1000-3)	



KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence

.... From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

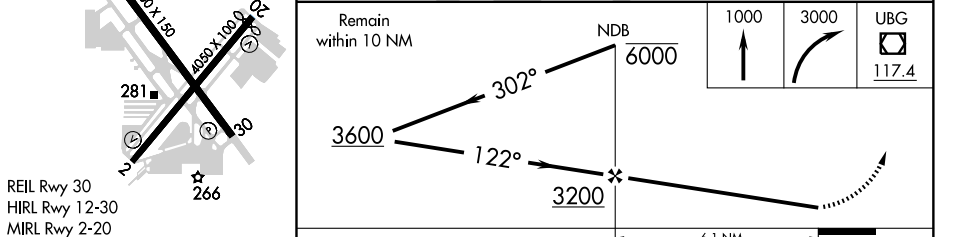
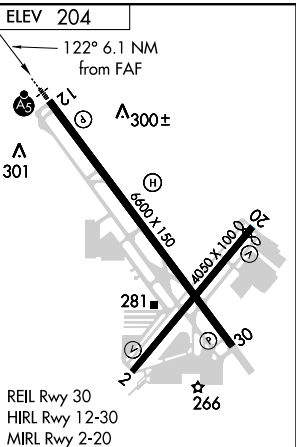
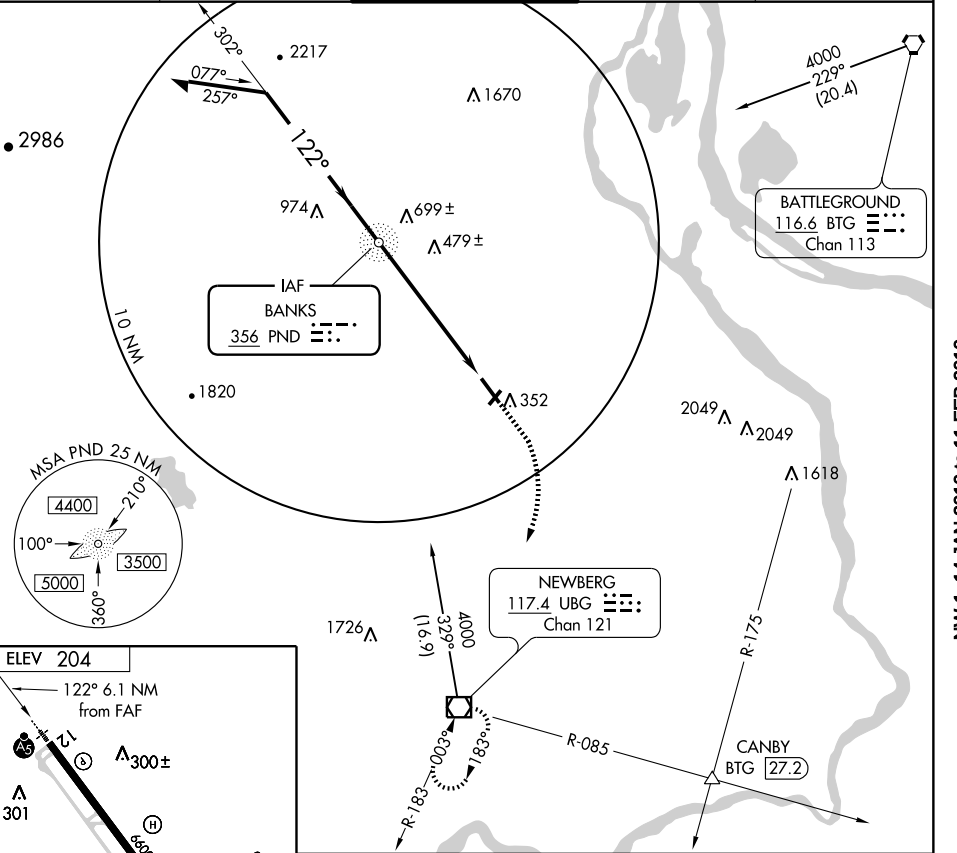
Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

▼

MISSED APPROACH: Climb to 1000, then climbing right turn to 3000 direct UBG VOR/DME and hold.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER ★ 119.3 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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FAF to MAP 6.1 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	900-1 696 (700-1)		900-2 696 (700-2)	960-2½ 756 (800-2½)
Min:Sec	6:06	4:04	3:03	2:26	2:02					

NW-1. 14 JAN 2010 to 11 FEB 2010

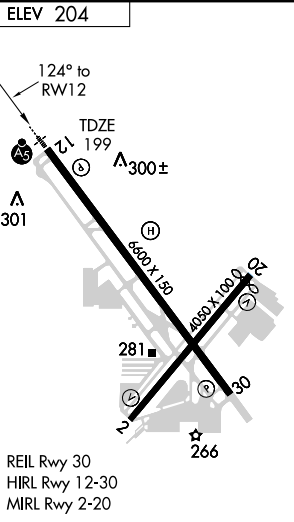
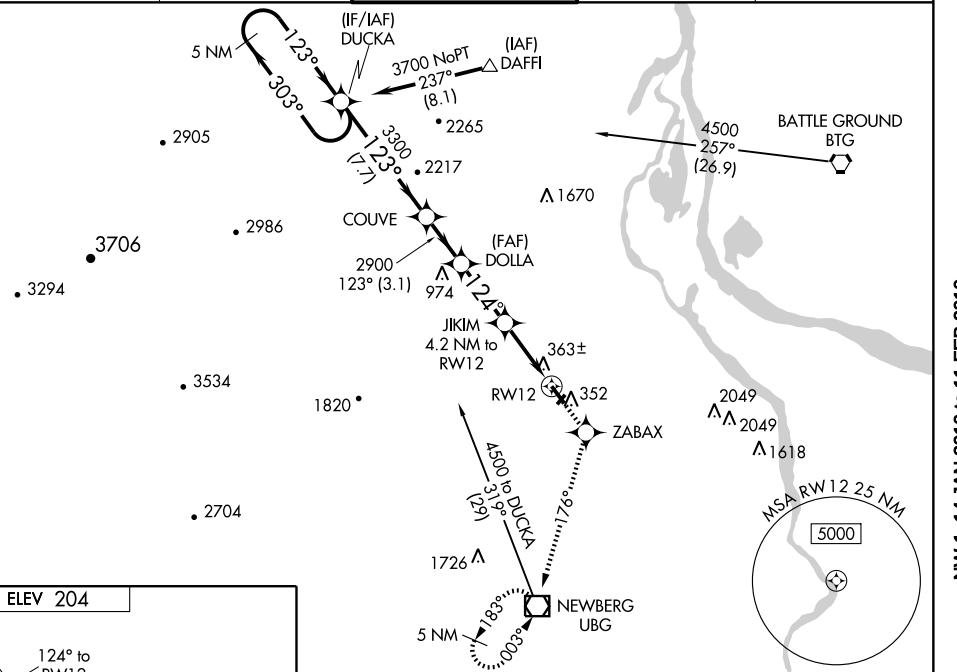
WAAS CH 69502 W12A	APP CRS 124°	Rwy Idg TDZE Apt Elev	6600 199 204
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⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA.
⚠ If local altimeter setting not received, use Portland Intl altimeter setting and increase all DAs/MDAs 60 feet.
VDP NA when using Portland Intl altimeter setting.
For inoperative MALSR, increase LPV all Cats visibility to 1½, and LNAV Cat D visibility 1¼. Baro-VNAV NA when using Portland Intl altimeter setting.

MALSR

MISSED APPROACH: Climb to 3000 direct ZABAX and via 176° track to UBG VOR/DME and hold, continue climb-in-hold to 3000.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER* 119.3 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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VGSI and RNAV glidepath not coincident.				
5 NM Holding Pattern				
GS 3.00° TCH 54				
CATEGORY	A	B	C	D
LPV DA	598-1 399 (400-1)			
LNAV/VNAV DA	651-1 452 (500-1)			
LNAV MDA	620-1½ 421 (500-1½)		620-¾ 421 (500-¾)	620-1 421 (500-1)
CIRCLING	680-1½ 476 (500-1½)		760-2 556 (600-2)	

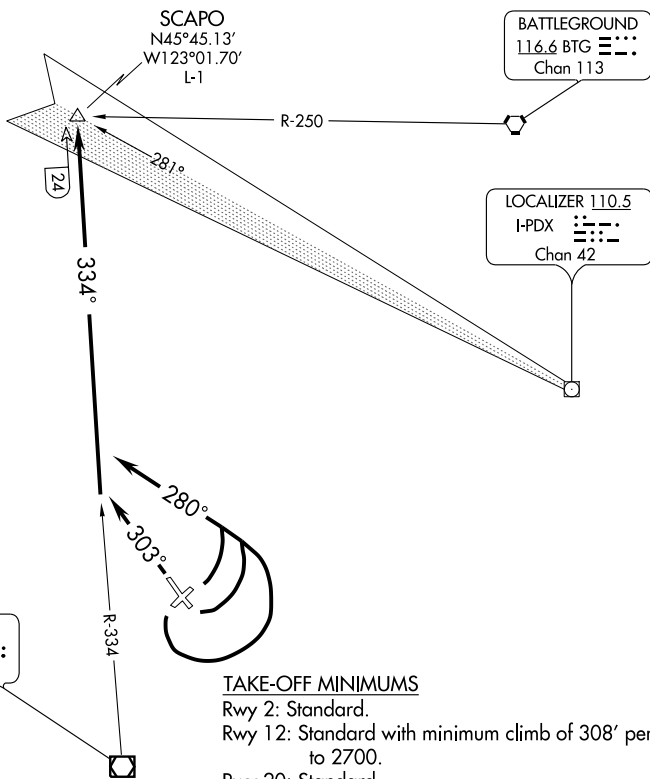
NW-1. 14 JAN 2010 to 11 FEB 2010

SCAPO FOUR DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)
PORTLAND, OREGON

ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6

**TAKE-OFF OBSTACLE NOTES**

- Rwy 2: Multiple roads beginning 246' from DER, 3' right of centerline, up to 15' AGL/220' MSL.
- Rwy 12: Multiple trees beginning 1,842' from DER, 222' left of centerline, up to 125' AGL/324' MSL.
Multiple trees beginning 3,629' from DER, 46' right of centerline, up to 143' AGL/332' MSL.
- Rwy 20: Multiple trees and pole beginning 967' from DER, 118' left of centerline, up to 93' AGL/292' MSL.
Vent on hangar 63' from DER, 428' left of centerline, 26' AGL/225' MSL.
Multiple trees and antenna on bldg beginning 965' from DER, 449' right of centerline, up to 74' AGL/273' MSL.
- Rwy 30: Multiple trees beginning 1,664' from DER, 623' right of centerline, up to 194' AGL/363' MSL.
Pole 702' from DER, 603' left of centerline, 26' AGL/215' MSL.

**DEPARTURE ROUTE DESCRIPTION**

TAKE-OFF RUNWAYS 2, 12, AND 20: Turn left heading 280°, thence . . .

TAKE-OFF RUNWAY 30: Climb via heading 303°, thence . . .

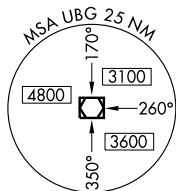
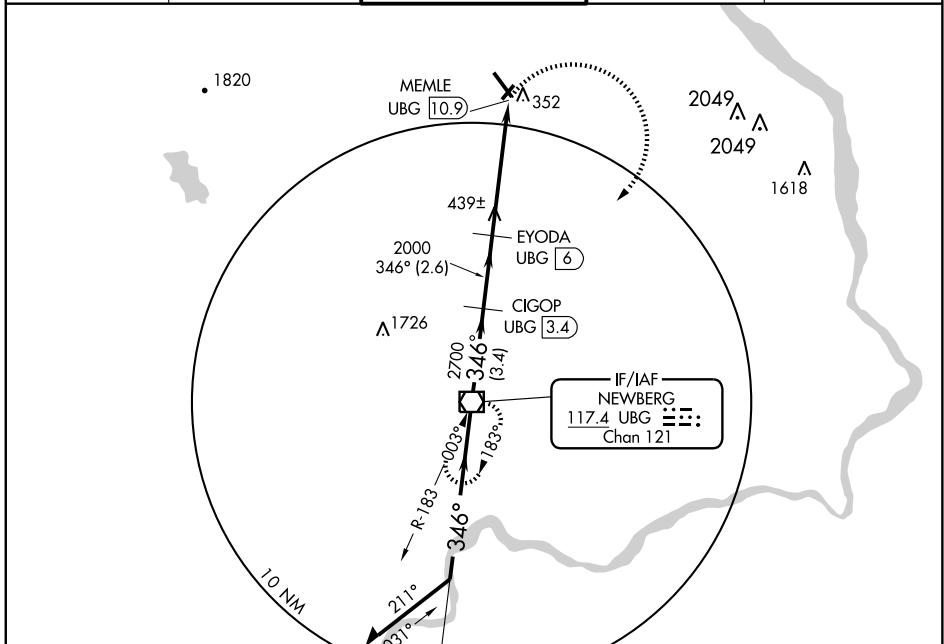
. . . Intercept and proceed via UBG R-334 to SCAPO INT, thence via (assigned route).

VOR/DME UBG 117.4 Chan 121	APP CRS 346°	Rwy Idg TDZE Apt Elev N/A N/A 204
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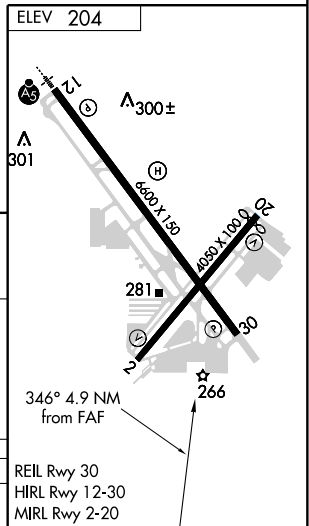
VOR/DME-C

PORTLAND-HILLSBORO (H10)

		MISSED APPROACH: Climbing right turn to 3000 direct UBG VOR/DME and hold.		
ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER ★ 119.3 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95



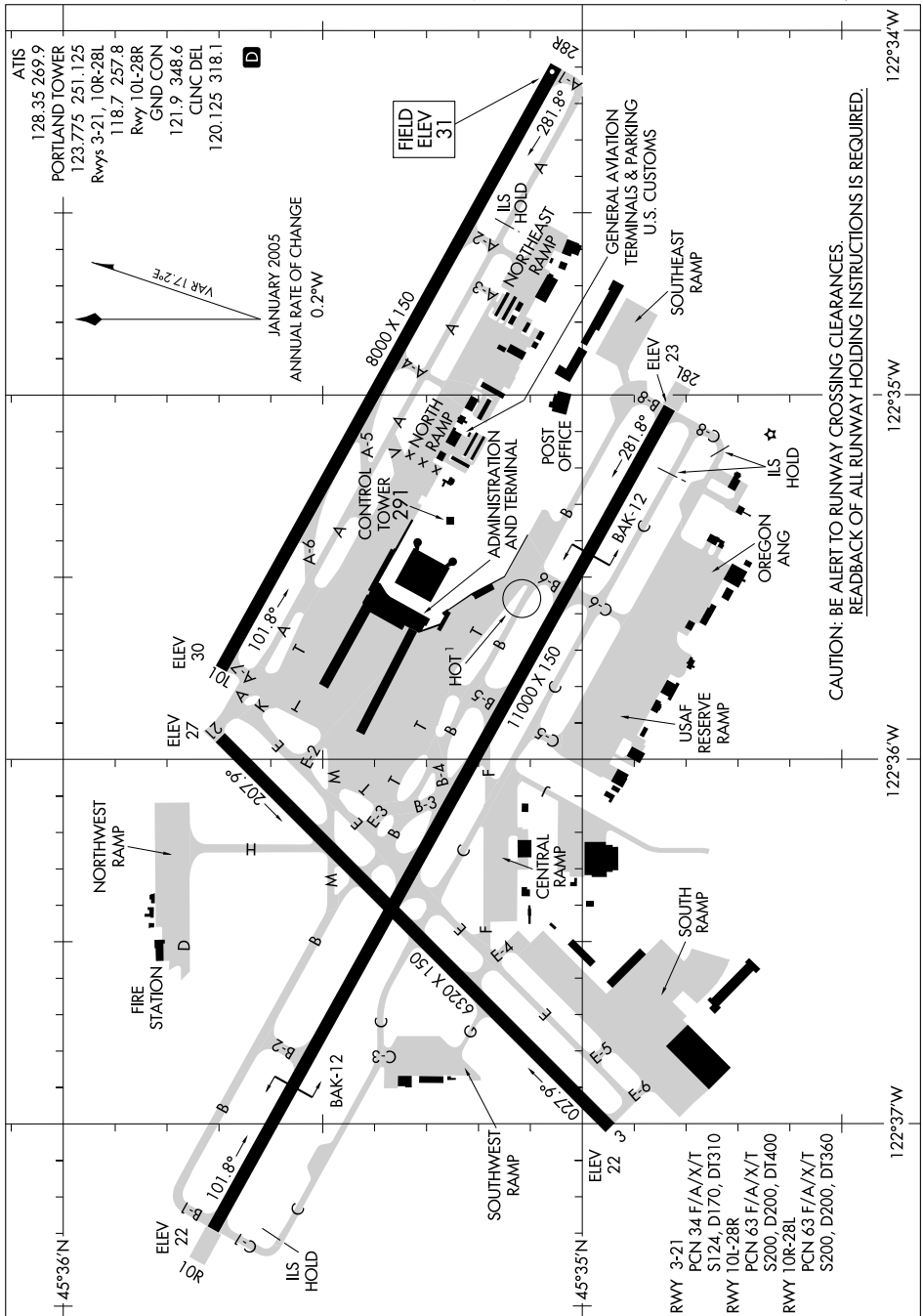
Remain within 10 NM		VOR/DME		3000 UBG 117.4	
3100		6000		3000	
166°		346°		346°	
2700		2700		2000	
3.4 NM		2.6 NM		4.9 NM	
CATEGORY	A	B	C	D	
CIRCLING	700-1	496 (500-1)	700-1½ 496 (500-1½)	760-2 556 (600-2)	



AIRPORT DIAGRAM

AL-330 (FAA)

PORTLAND INTERNATIONAL (PDX)
PORTLAND, OREGON



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

NW-1, 14 JAN 2010 to 11 FEB 2010

BONVL SIX ARRIVAL

ST-330 (FAA)

PORTLAND INTEL
PORTLAND, OREGON

KIMBERLY TRANSITION (IMB.BONVL6): From over IMB VORTAC via IMB R-287 to DUFUR, then via PDX R-079 to BONVL, Thence. . . .

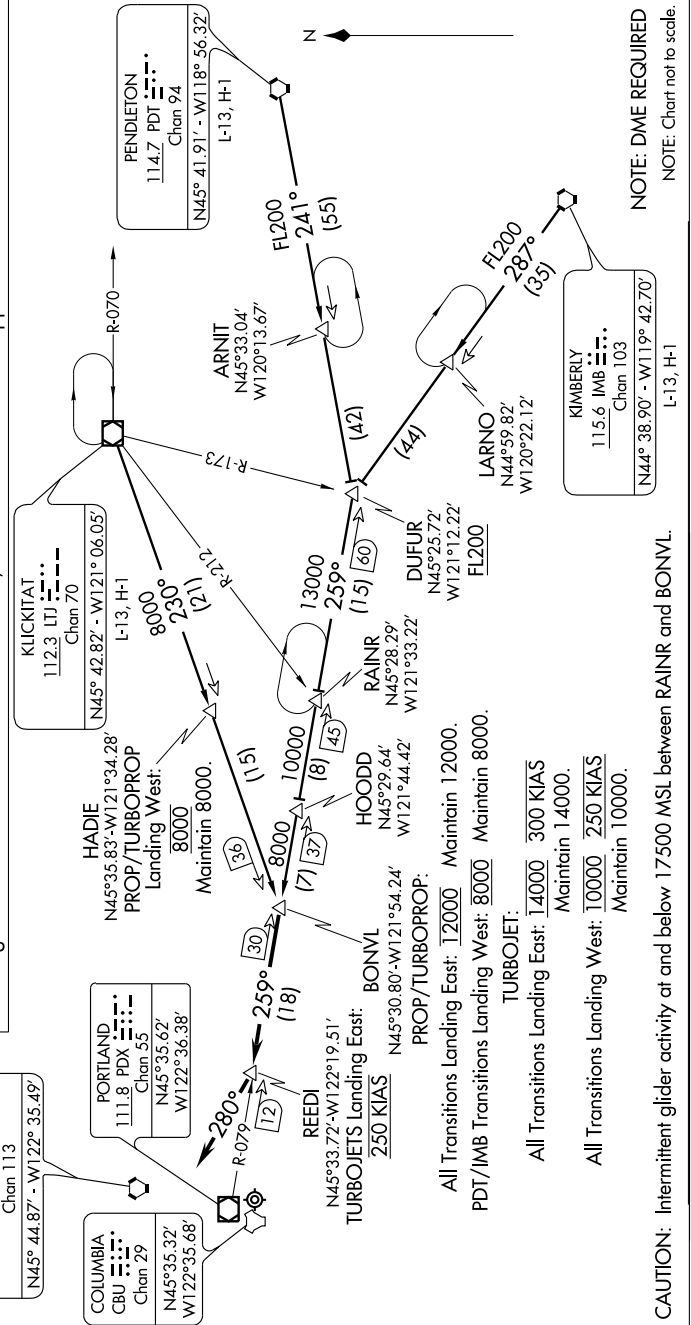
KLUCKITAT TRANSITION (LTJ.BONVL6): From over LTJ VOR/DME via LTJ R-230 to BONVL. Thence. . . .

PENDLETON TRANSITION (PDT.BONVL6): From over PDT VORTAC via PDT R-241 to DUFUR, then via PDX R-079 to BONVL. Thence. . . .

....From over BONVL:

Landing East - via PDX R-079 to REEDI DME fix. Depart REEDI DME fix heading 280° for radar vectors to final approach course.

Landing West - via PDX R-079 to REEDI DME fix, for radar vectors to final approach course.



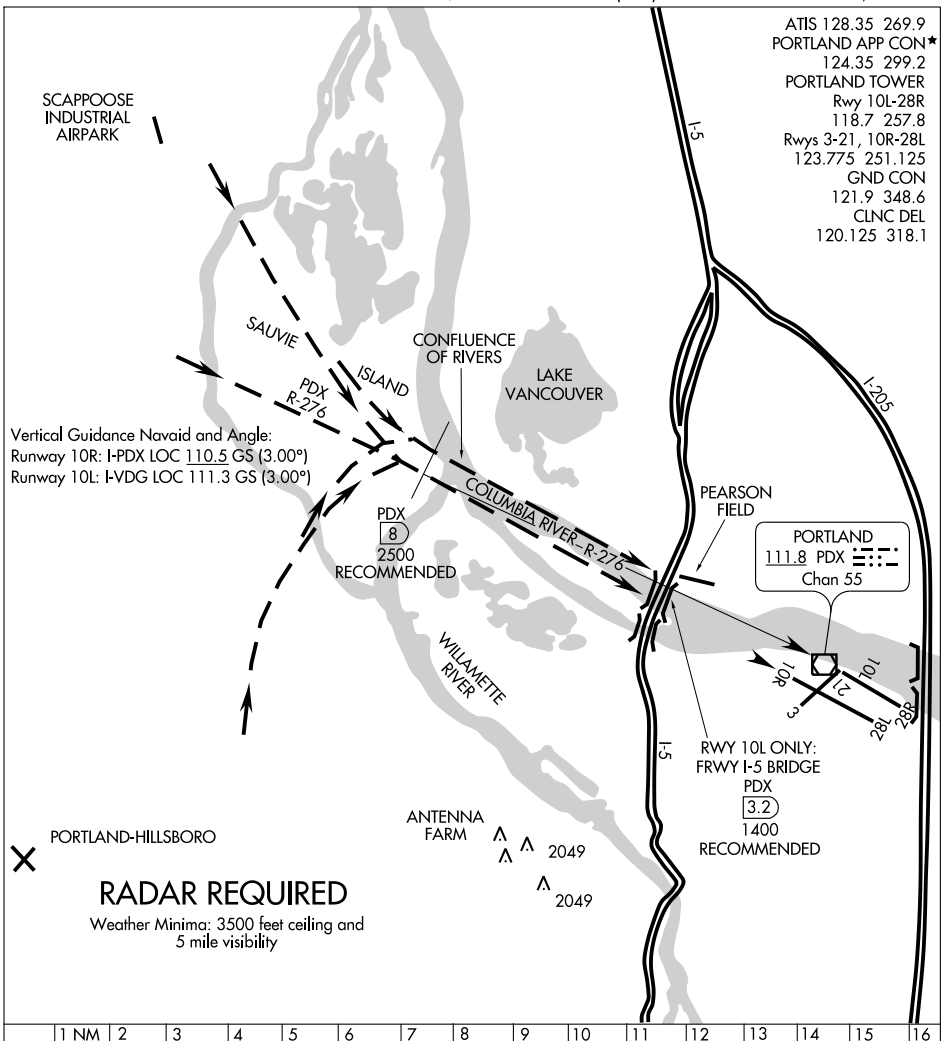
CAUTION: Intermittent glider activity at and below 17500 MSL between RAINR and BONVL.

COLUMBIA VISUAL RWY 10L/R

AL-330 (FAA)

PORTLAND INTL (PDX)

PORTLAND, OREGON



PROCEDURE NOT AUTHORIZED AT NIGHT.

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

LOCALIZER I-PDX 110.5 Chan 42	APCH CRS 101°	Rwy Idg 11,000 TDZE 24 Arpt Elev 30
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JAL-330 [USAF]

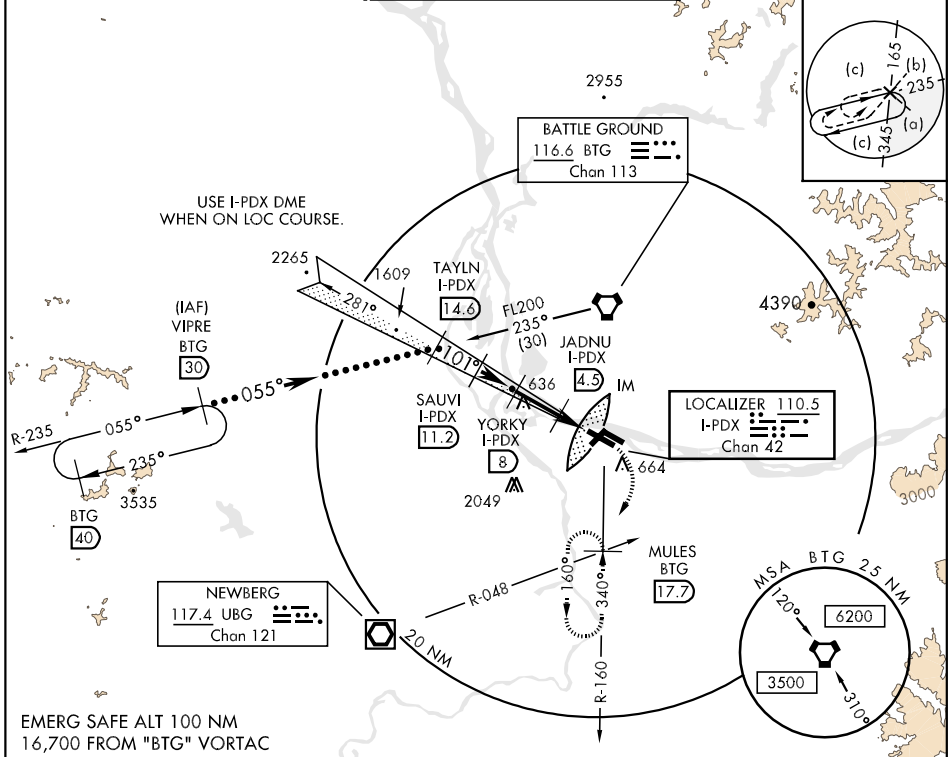
PORTLAND INTL (KPDJ)

▼ * When ALS inop, increase RVR to 40 and vis to ¾ mile.
 ** When ALS inop, increase CAT C RVR to 50 and vis to 1 mile, CAT DE RVR to 60 and vis to 1 ¼ miles.

ALSF-2

MISSED APPROACH: Climb to 900, then climbing right turn to 4000 via BTG VORTAC R-160 to MULES and hold.

ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	118.7 257.8 123.775 251.125	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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EMERG SAFE ALT 100 NM 16,700 FROM "BTG" VORTAC			900 4000 MULES BTG 17.7			ELEV 30 424 ±		
VIPRE BTG 30 FL2001 055° 3800			TAYLN I-PDX 14.6 101° 3000			101° 6.0 NM from FAF		
SAUVI I-PDX 11.2 170° 2000			YORKY I-PDX 8 160° 860 ±			TDZE 24 42		
JADNU I-PDX 4.3 160° 44			I-PDX 2 160° 160			REIL Rwy 3-21 TDZL/CL 10R		
GS 3.00° TCH 53			3.5 NM 2.4 NM .1			MIRL Rwy 3-21		
VGSI and ILS glidepath not coincident.			↑ LOC ONLY			HIRL Rwy 10L-28R, 28L-10R		
CATEGORY	C	D	E					
S-ILS 10R *	224/18	200 (200-¾)	224/24 200 (200-½)					
S-LOC/DME 10R **	380/24 356 (400-½)	380/40 356 (400-¾)						
CIRCLING	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)					

LOCALIZER I-AP 111.3 Chan 50	APCH CRS 279°	Rwy ldg 8000 TDZE 30 Arpt Elev 30
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JAL-330 [USAF]

PORTLAND INTL (KPDJ)

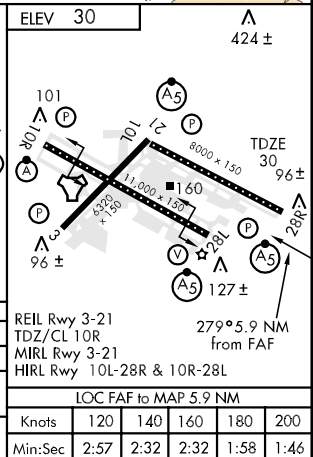
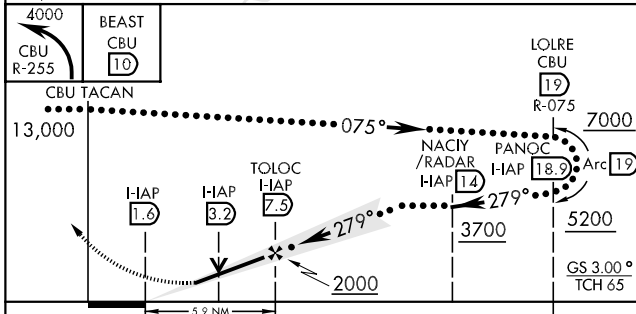
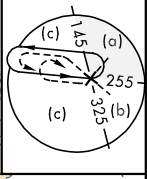
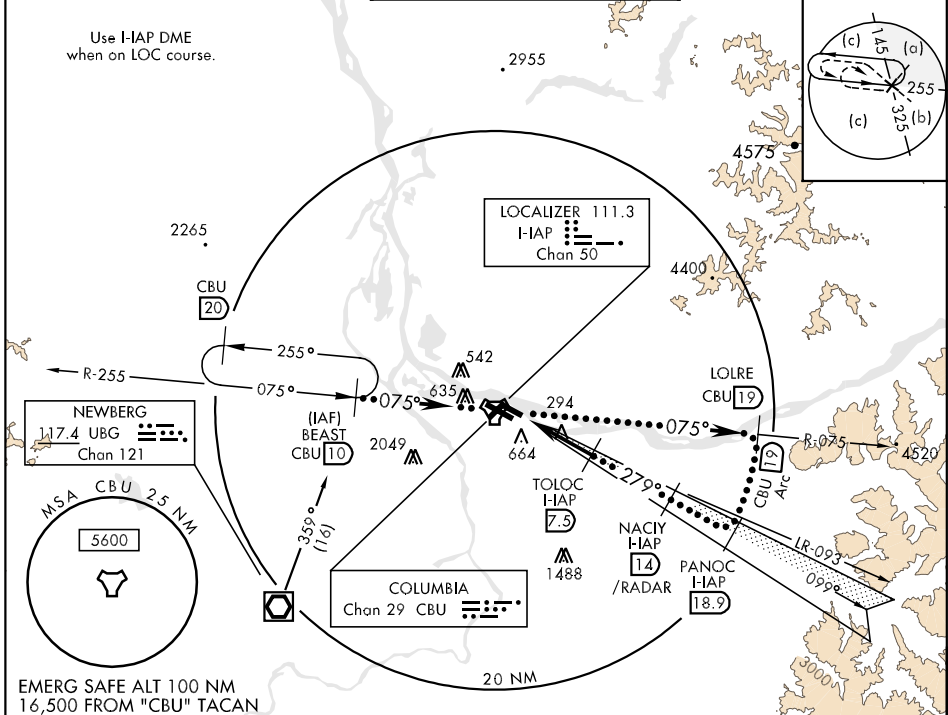
▼ * When ALS inop, increase CAT E vis to 2 miles.
** Circling NA at night to Rwy 3.



MISSED APPROACH: Climbing left turn to 4000
via CBU TACAN R-255 to BEAST and hold.

ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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Use I-AP DME
when on LOC course.



CATEGORY	C	D	E
S-ILS 28R	280/40	250	(300-34)
S-LOC 28R*	600/50 570 (600-1)	600/60 570 (600-14)	600-11/2 570 (600-1/2)
CIRCLING**	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)

TACAN CBU Chan 29	APCH CRS 106°	Rwy ldg 11,000 TDZE 24 Arpt Elev 30
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JAL-330 [USAF]

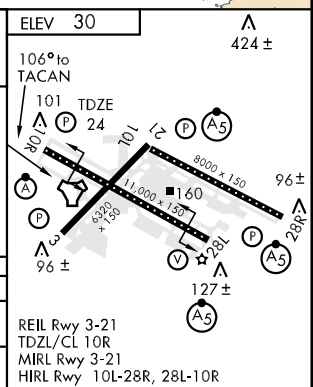
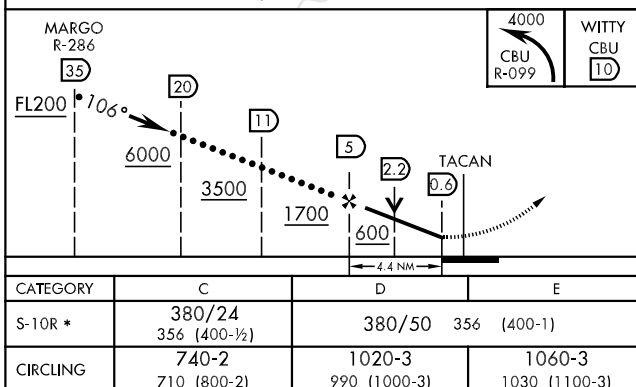
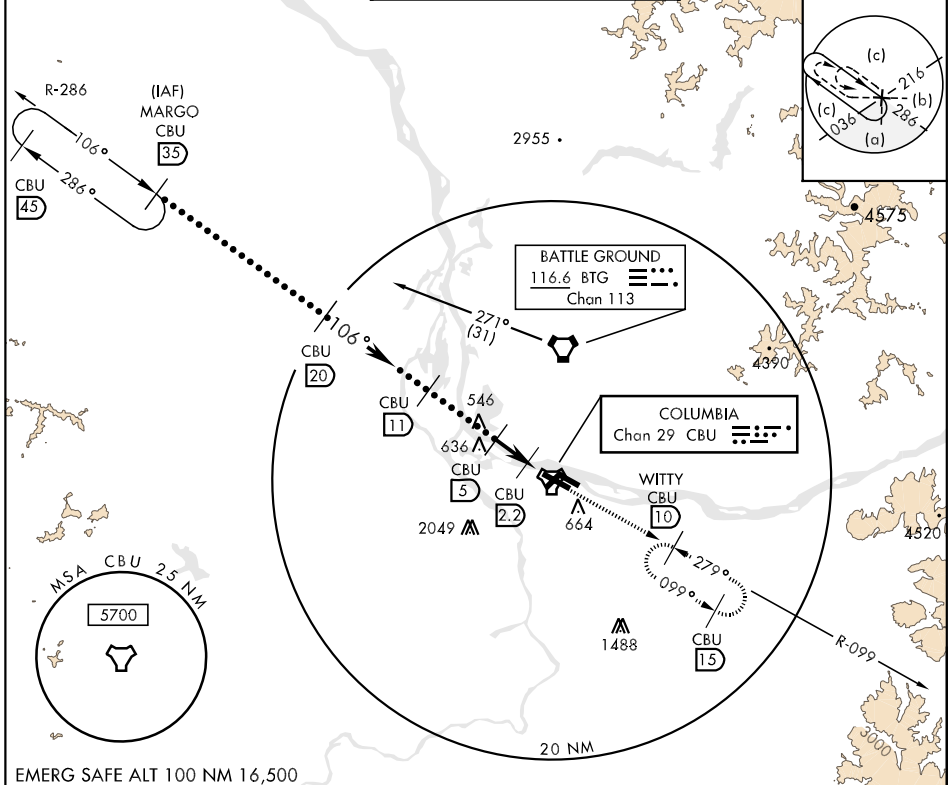
PORTLAND INTL (KPDJ)

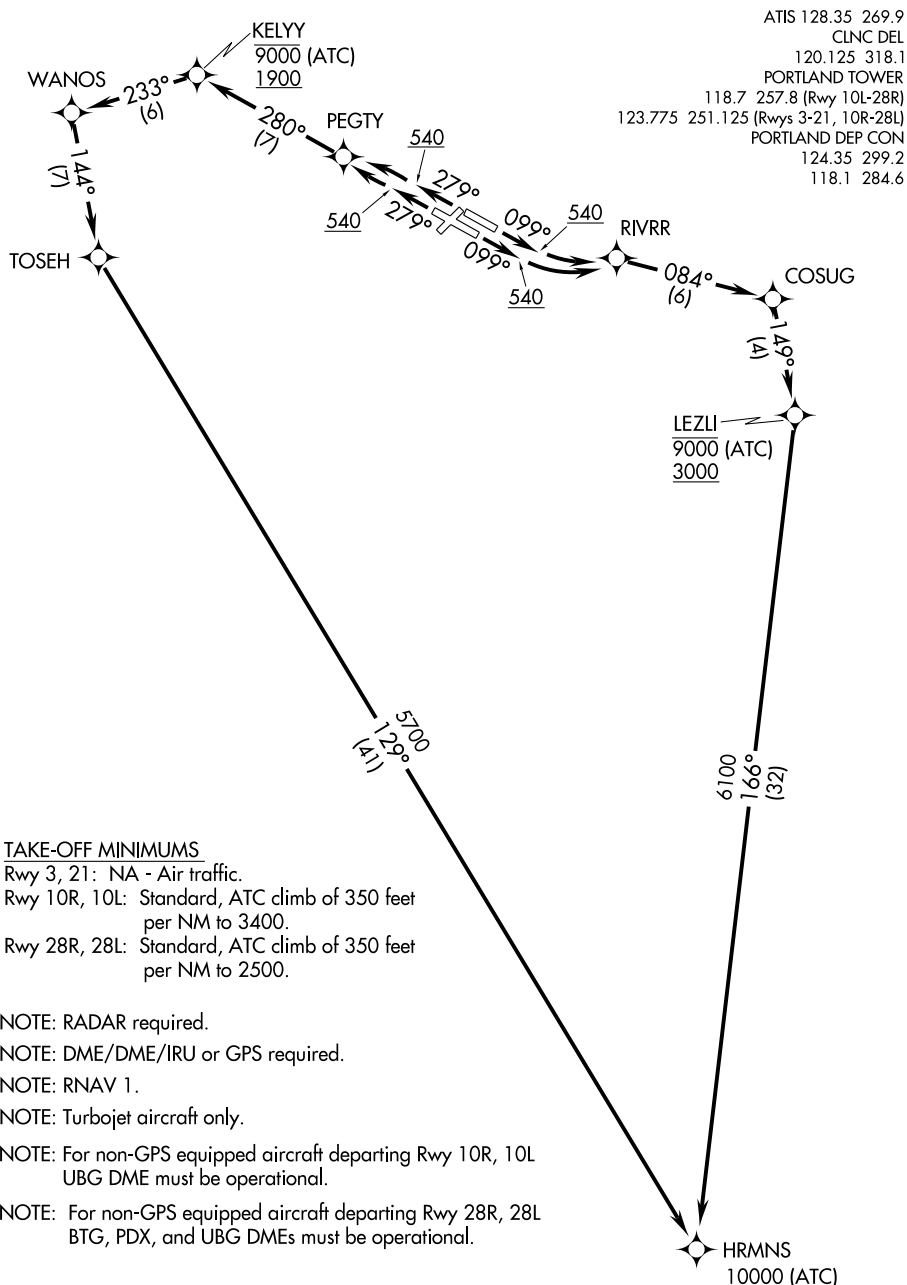
▼ * When ALS inop, increase CAT C RVR to 50 and vis to 1 mile.



MISSED APPROACH: Climb to 4000 via CBU TACAN R-099 to WITTY/CBU 10 DME and hold.

ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 149° track to cross LEZLI at or below 9000 (ATC)/3000, then via 166° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 149° track to cross LEZLI at or below 9000 (ATC)/3000, then via 166° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 129° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 129° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

....maintain assigned altitude, expect filed altitude 10 minutes after departure.

TAKE-OFF OBSTACLE NOTES

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL.

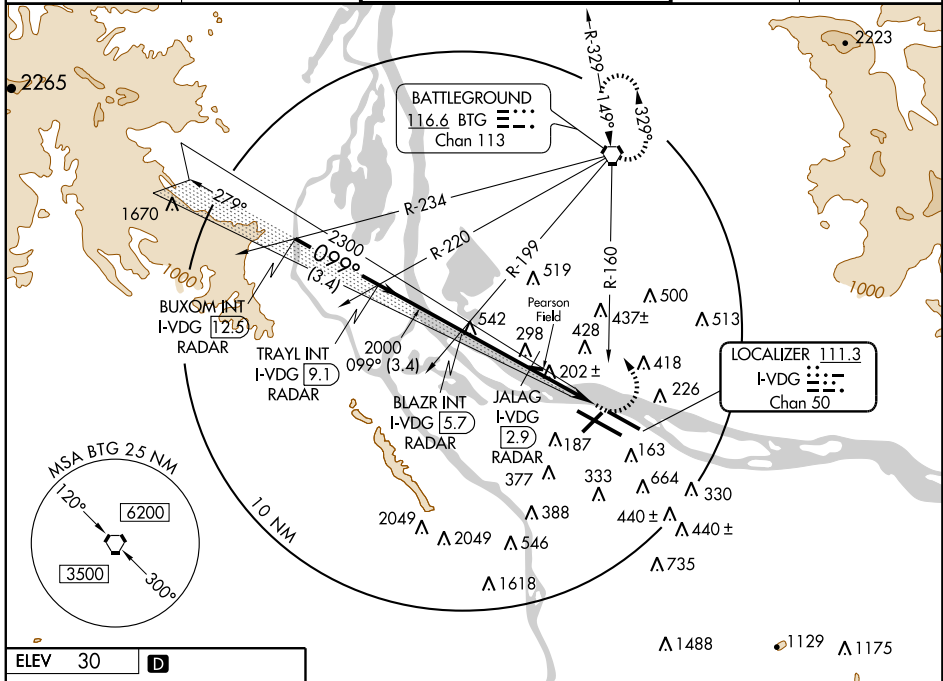
Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

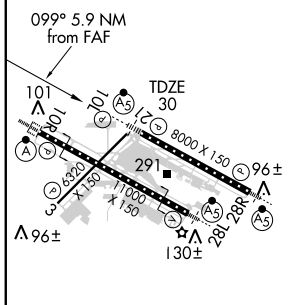
LOC/DME I-VDG <u>111.3</u> Chan 50	APP CRS 099°	Rwy Idg 8000 TDZE 30 Apt Elev 30
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ILS or LOC RWY 10L
PORTLAND INTL (PDX)

				MISSED APPROACH: Climb to 700, then climbing left turn to 4000 via BTG R-160 to BTG VORTAC and hold.	
ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1



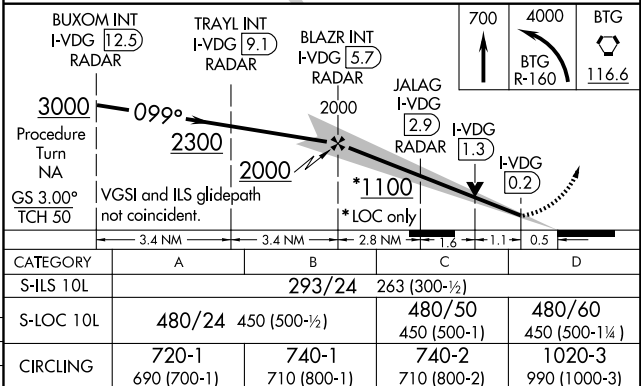
ELEV	30	D
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REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

RADAR or DME REQUIRED



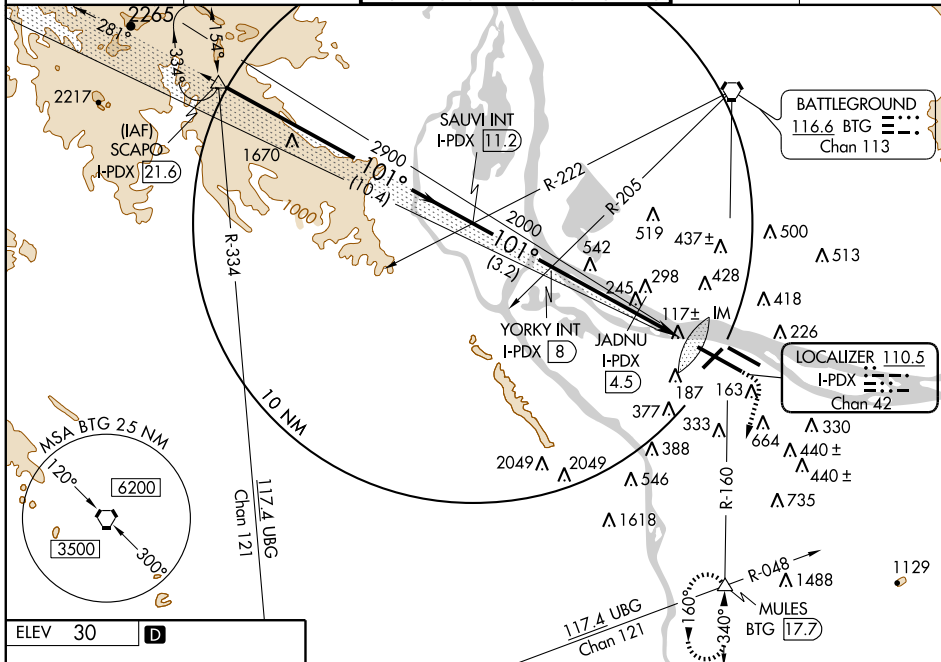
LOC/DME I-PDX <u>110.5</u> Chan 42	APP CRS 101°	Rwy Idg 11000 TDZE 24 Apt Elev 30
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ILS or LOC RWY 10R
PORTLAND INTL (PDX)

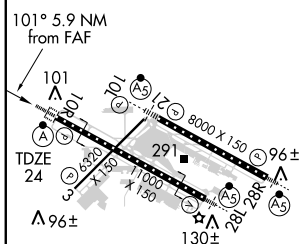
	When control tower reports construction equipment is operating within the area, Cat II and III minimums not authorized.
▼	For inoperative ALSF-2 increase S-LS Cat E visibility to RVR 4000.
▲	For inoperative ALSF-2 increase S-LOC Cat E visibility to 3 miles.
	For inoperative ALSF-2 increase DME minimums S-LOC 10R Cat E visibility to RVR 6000.

ALSF-2
 MISSED APPROACH: Climb to 900, then climbing right turn to 4000 via BTG R-160 to MULES Int/BTG VORTAC 17.7 DME and hold.

ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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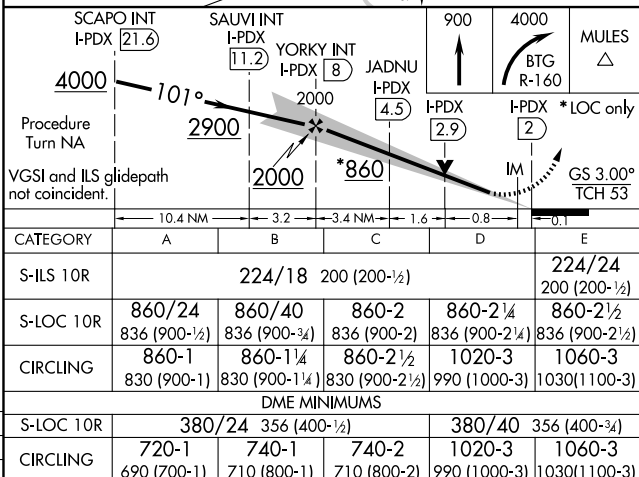


ELEV	30	D
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REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

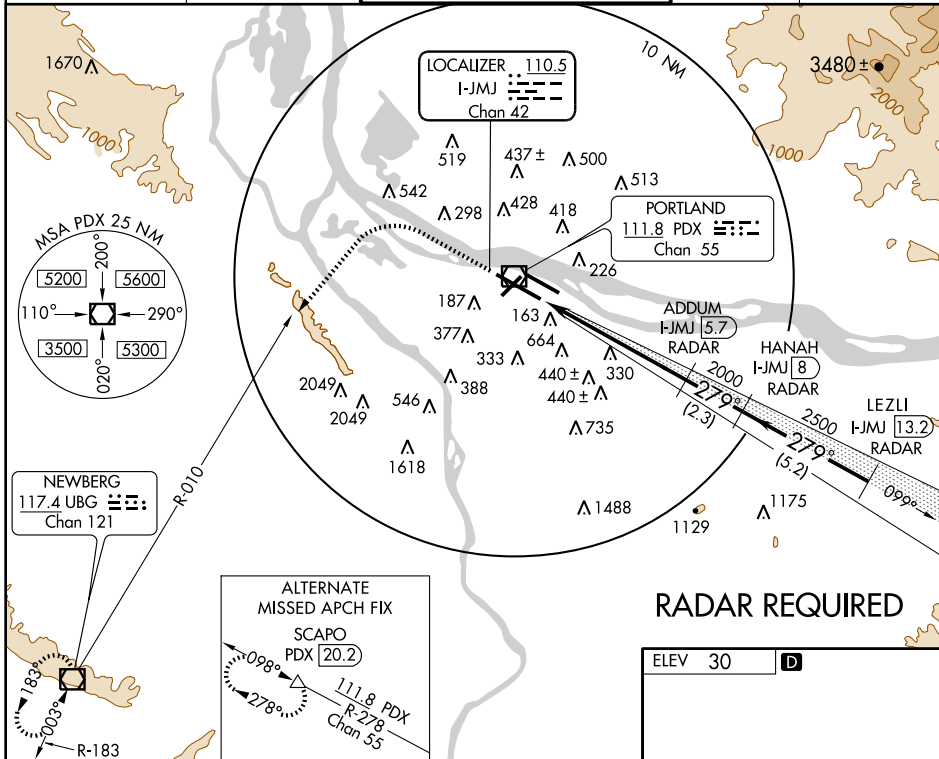
FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58



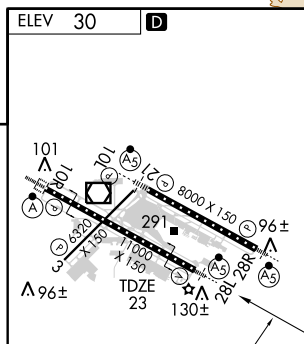
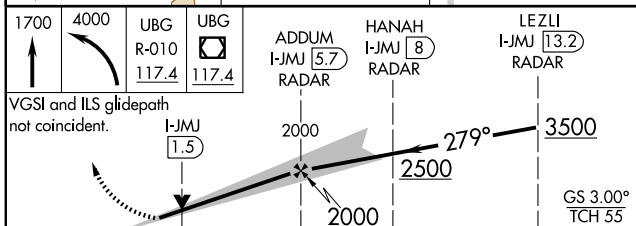
LOC/DME I-JMJ 110.5 Chan 42	APP CRS 279°	Rwy Idg 11000 TDZE 23 Apt Elev 30
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ILS or LOC RWY 28L
PORTLAND INTL (PDX)

	RADAR or DME required. For inoperative MALS/R, increase S-ILS visibility to RVR 5000 all Cats and S-LOC Cat E visibility to 2 miles. Autopilot coupled approach N/A below 580.		MALS/R	MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 via UBG R-010 to UBG VOR/DME and hold.	
	ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8	Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6



RADAR REQUIRED



	1.7 NM	4.2 NM	2.3 NM	5.2 NM		REIL Rwy's 3 and 21 TDZ/CL Rwy 10R MIRL Rwy 3-21 HIRL Rwy's 10L-28R and 10R-28L FAF to MAP 5.9 NM Knots 60 90 120 150 180 Min:Sec 5:54 3:56 2:57 2:22 1:58	279° 5.9 NM from FAF
CATEGORY	A	B	C	D	E		
S-ILS-28L	306/24 283 (300-½)						
S-LOC-28L	620/24 597 (600-½)		620/50 597 (600-1)	620/60 597 (600-1¼)	620-1½ 597 (600-1½)		
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)		

LOC/DME HAP

111.3

Chan 50

APP CRS

279°

Rwy Idg TDZE

8000 30

Apt Elev

30

MAJRS

MISSED APPROACH:

Climbing right turn to 4000 via BTG R-160 to BTG VORTAC and hold.

ATIS	PORTLAND APP CON	PORTLAND TOWER	GND CON	CLNC DEL
128.35 269.9	124.35 299.2	Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125	121.9 348.6	120.125 318.1

ELEV 30

REIL Rwys 3 and 21

TDZ/CL Rwy 10R

MIRL Rwy 3-21

HIRL Rwys 10L-28R and 10R-28L

FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

4000

BTG

116.6

BTG R-160

Use I-HAP DME when on the localizer course.

TOLOC

I-HAP 7.5

RADAR

NACY INT

I-HAP 14

RADAR

One Minute Holding Pattern

099°

279°

3800

GS 3.00°

TCH 65

CATEGORY	A	B	C	D
S-ILS 28R	280/40 250 (300-¾)			
S-LOC 28R	600/40	570 (600-¾)	600/50 570 (600-1)	600/60 570 (600-1½)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)

NW-1. 14 JAN 2010 to 11 FEB 2010

ILS RWY 10R (CAT II) PORTLAND INTL (PDX)

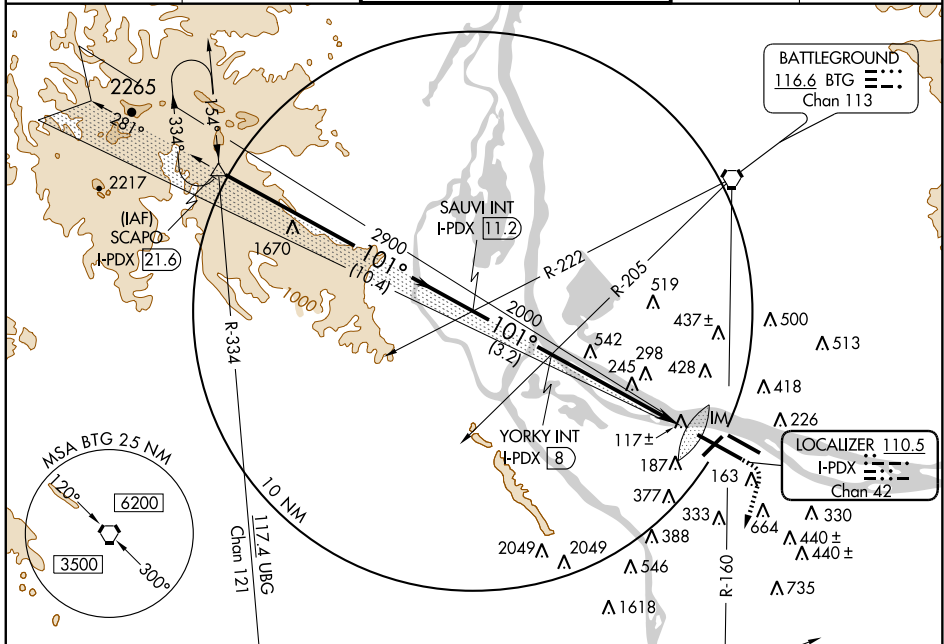
LOC/DME I-PDX 110.5 Chan 42	APP CRS 101°	Rwy Idg 11000 TDZE 24 Apt Elev 30
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⚠ When control tower reports construction equipment is operating within the area, Cat II and III minimums not authorized.

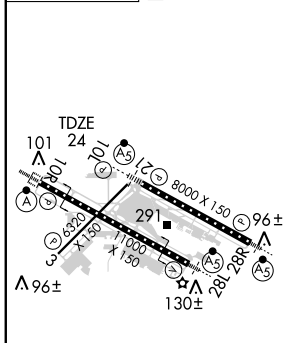
ALSf-2
A

MISSED APPROACH: Climb to 900, then climbing right turn to 4000 via BTG R-160 to MULES Int/BTG VORTAC 17.7 DME and hold.

ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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ELEV 30 **D**



REIL Rwys 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwys 10L-28R and 10R-28L

SCAPO INT I-PDX 21.6	YORKY INT I-PDX 8	Procedure Turn NA	900 ↑	4000 ↻ BTG R-160	MULES △
4000	2900	2000	2000	900	4000
GS 3.00° TCH 53	101°	2900	2000	900	4000
10.4 NM	3.2	5.8 NM	897'	1049'	
CATEGORY S-ILS 10R	A	B	C	D	
RA 107/12 100 DA 124					

**CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED**

LOC/DME I-PDX 110.5 Chan 42	APP CRS 101°	Rwy Idg 11000 TDZE 24 Apt Elev 30
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ILS RWY 10R (CAT III)

PORTLAND INTL (PDX)

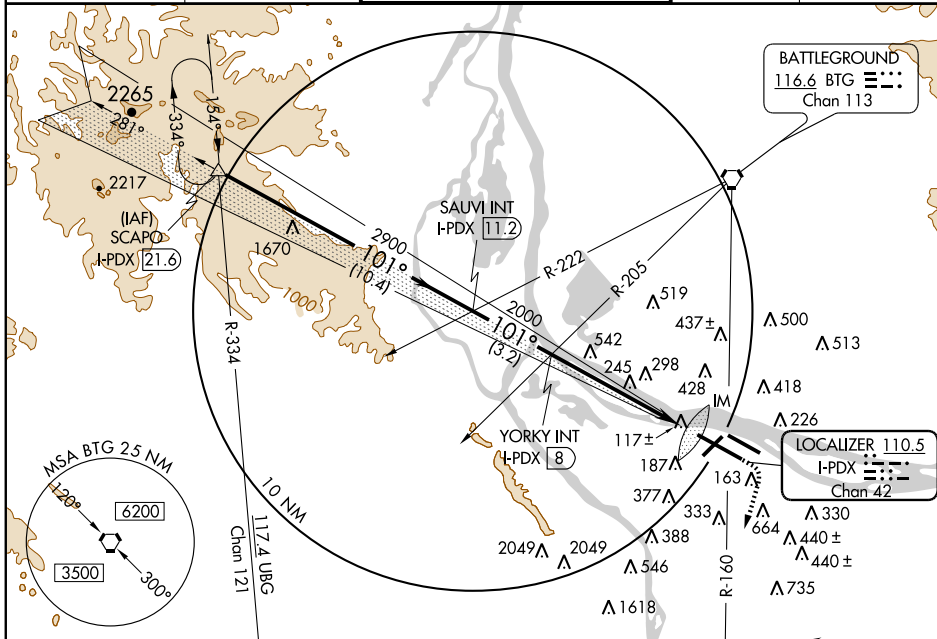
- T** When control tower reports construction equipment
A is operating within the area, Cat II and III minimums
not authorized.

ALSF-2

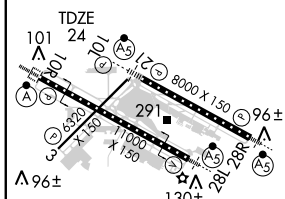


MISSED APPROACH: Climb to 900, then climbing right turn to 4000 via BTG R-160 to MULES Int/BTG VORTAC 17.7 DME and hold

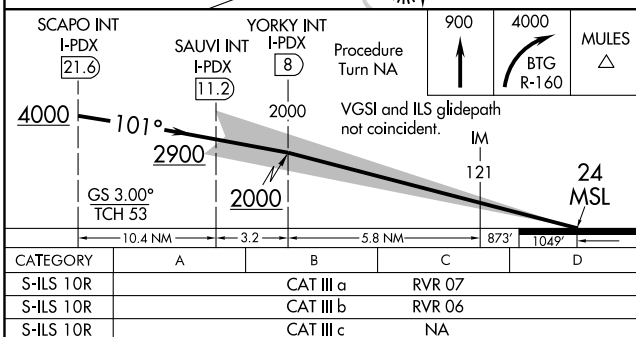
ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8		Rwys 3-21, 10R-28L 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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ELEV	30
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REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L



CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

LAVAA TWO DEPARTURE (RNAV)

SL-330 (FAA)

PORTLAND INTL (PDX)

PORTLAND, OREGON

ATIS 128.35 269.9
CLINC DEL
120.125 318.1
PORTLAND TOWER
118.7 257.8 (Rwy 10L-28R)
123.775 251.125 (Rwys 3-21, 10R-28L)
PORTLAND DEP CON ★
124.35 299.2 (280°-099°)

YAKIMA
YKMPENDLETON
PDT

N

TAKE-OFF OBSTACLE NOTES

Rwy 10L: Rising terrain and vehicles on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL.

Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88 MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

TAKE-OFF MINIMUMS

Rwy 3, 21: NA - Air traffic.

Rwy 10R, 10L: Standard with minimum climb of 220 feet per NM to 5300 (obstacle), climb of 350 per NM to 3300 (ATC), 320 feet per NM to FL190 (ATC).

Rwy 28R, 28L: Standard with minimum climb of 240 feet per NM to 6100 (obstacle), climb of 350 feet per NM to 2500 (ATC), 300 feet per NM to FL190 (ATC).

ARUPT
250K

013° (8)

KELLY

280° (7)

PEGTY

540

279°

27°

540

099°

099°

540

540

540

540

540

540

540

540

540

NOTE: Chart not to scale.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 027° to cross OKKOR at or below 9000/4600, then via track 045° to LAVAA, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 027° to cross OKKOR at or below 9000/4600, then via track 045° to LAVAA, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540, then left turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/2300, then right turn via track 013° to ARUPT, then via track 073° to LAVAA, thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540, then right turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/2300, then right turn via track 013° to ARUPT, then via track 073° to LAVAA, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

PENDLETON TRANSITION (LAVAA2.PDT)

YAKIMA TRANSITION (LAVAA2.YKM)

LOC/DME I-GPO 108.9 Chan 26	APP CRS 205°	Rwy Idg 6320 TDZE 23 Apt Elev 30
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LOC/DME RWY 21
PORTLAND INTL (PDX)

MISSED APPROACH: Climbing right turn to 4000
via BTG R-160 to BTG VORTAC.

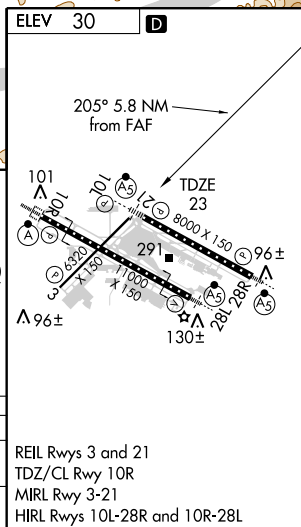
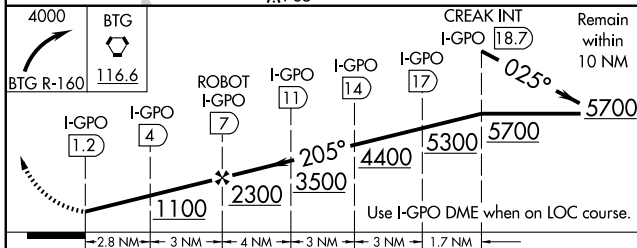
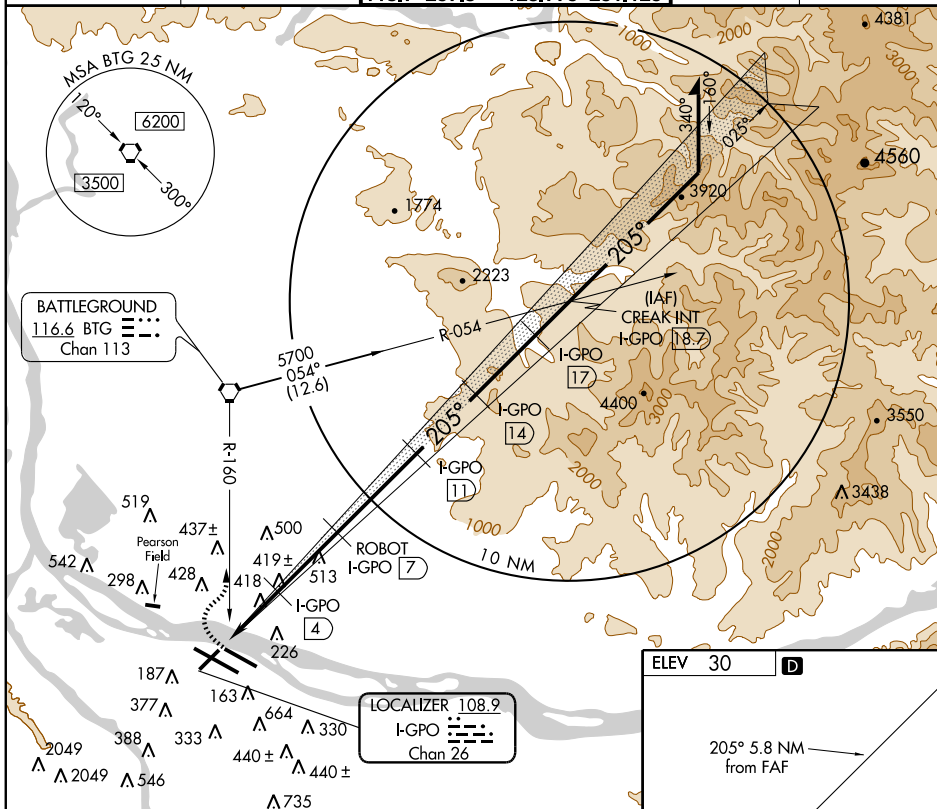
ATIS
128.35 269.9

PORTLAND APP CON ★
124.35 299.2

PORTLAND TOWER			
Rwy 10L-28R		Rwys 3-21, 10R-28L	
118,725	7	123,775	251,125

GND CON
121.9 348.6

CLNC DEL
120.125 318,1

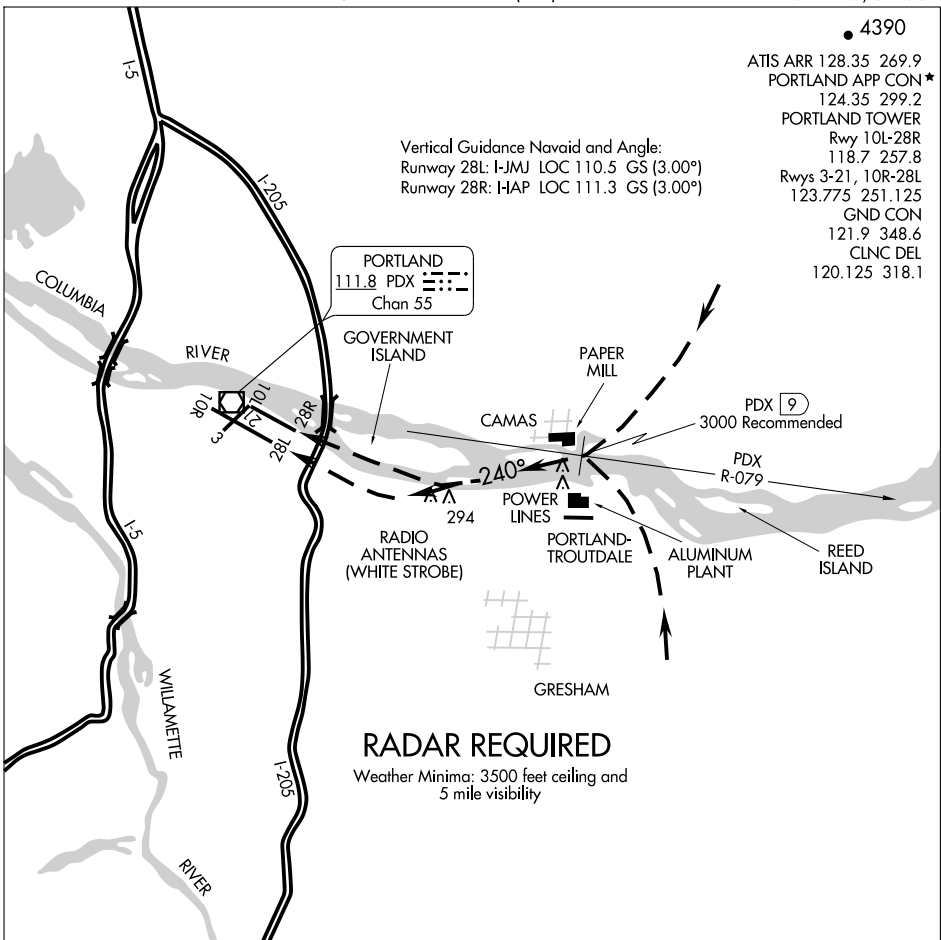


MILL VISUAL RWY 28L/R

AL-330 (FAA)

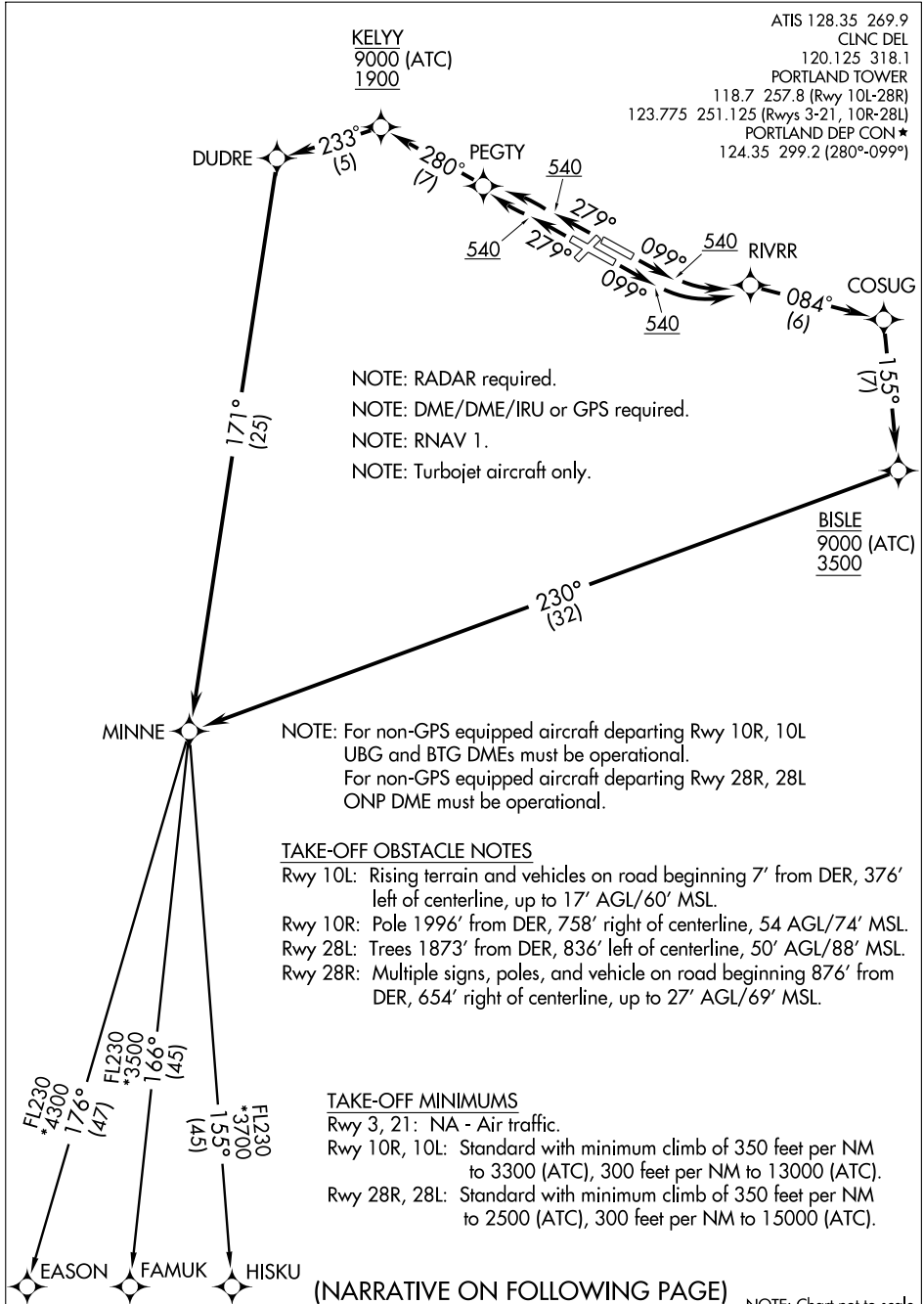
PORTLAND INTL (PDX)

PORTLAND, OREGON



23

When visual approaches to Runways 28L/R are in progress, clearances to aircraft will be issued utilizing the following phraseology: "(IDENT) CLEARED FOR MILL VISUAL RUNWAY 28 LEFT/RIGHT APPROACH."





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540, then left turn direct to RIVRR, then via track 084° to COSUG, then via track 155° to cross BISLE at or below 9000/3500, then via track 230° to MINNE, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 155° to cross BISLE at or below 9000/3500, then via track 230° to MINNE, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540, then left turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/1900, then via track 233° to DUDRE, then via track 171° to MINNE, thence....

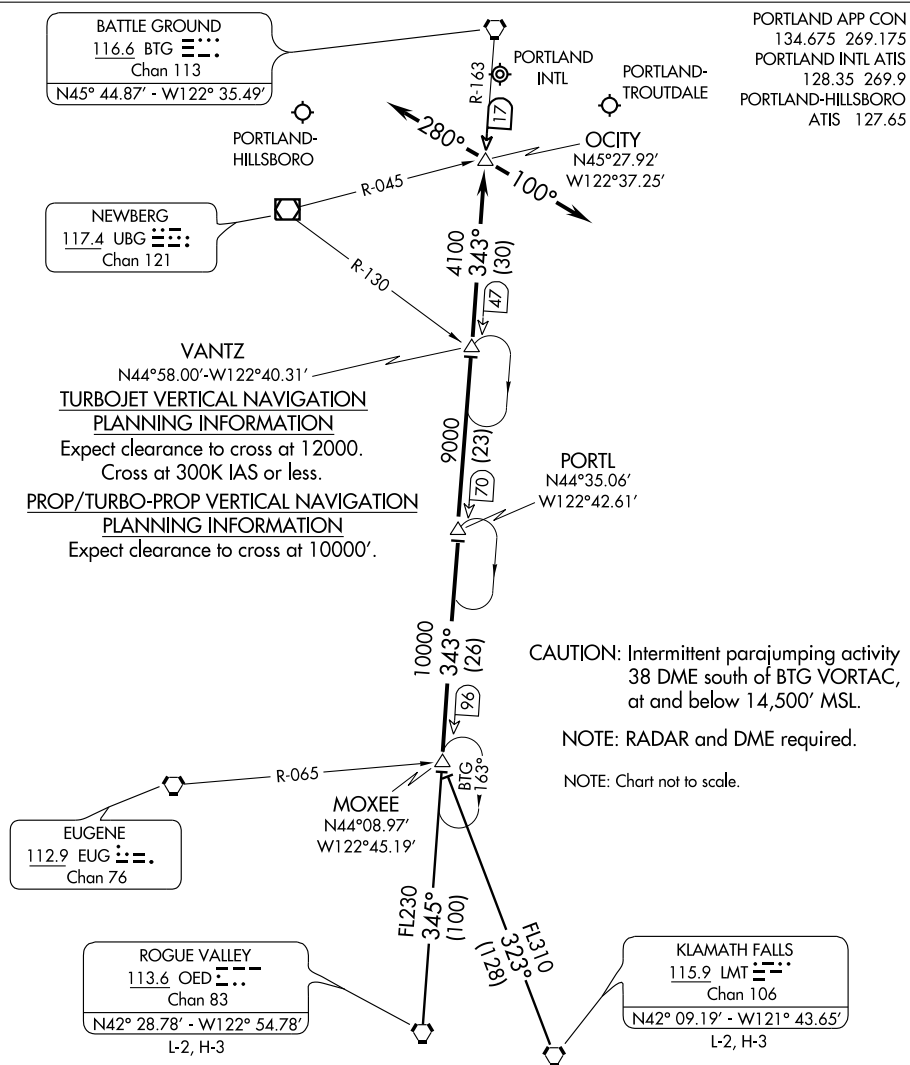
TAKE-OFF RUNWAY 28L: Climb heading 279° to 540, then right turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/1900, then via track 233° to DUDRE, then via track 171° to MINNE, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

EASON TRANSITION (MINNE2.EASON)

FAMUK TRANSITION (MINNE2.FAMUK)

HISKU TRANSITION (MINNE2.HISKU)



KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence

. . . . From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

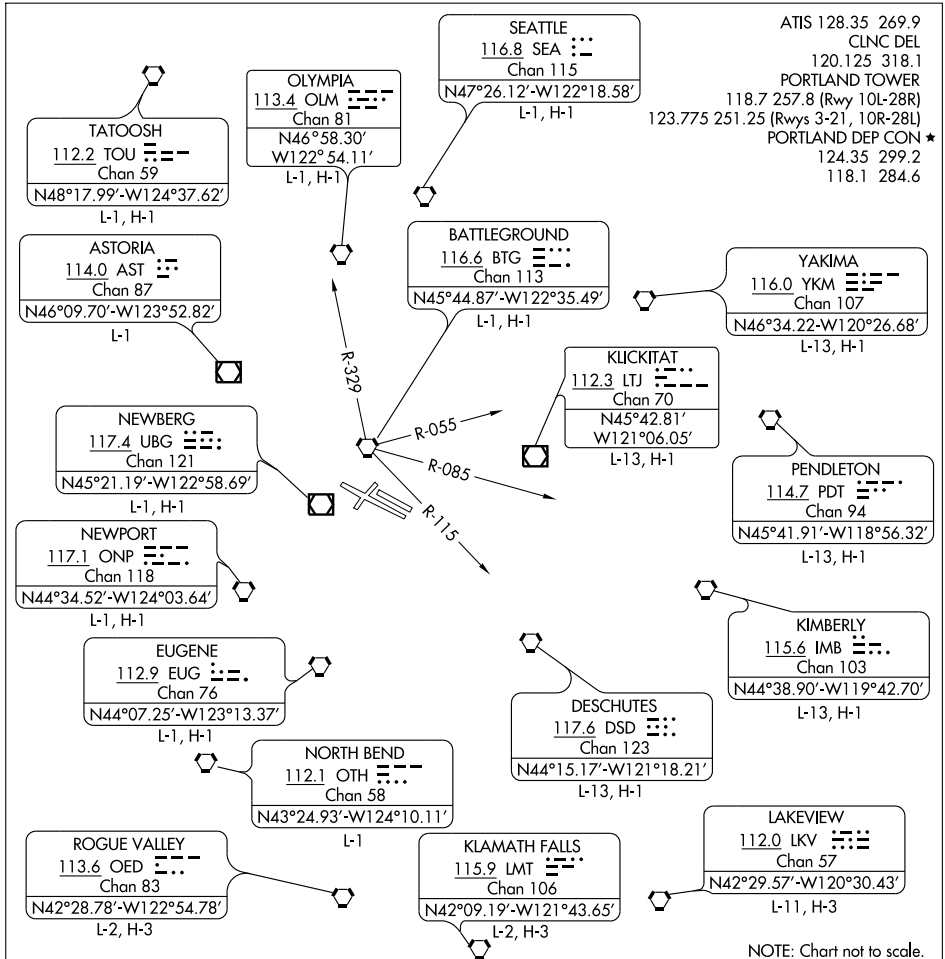
LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

PORTLAND SIX DEPARTURE

SL-330 (FAA)

PORTLAND INTL (PDZ)

PORTLAND, OREGON



TAKE-OFF MINIMUMS:

- Rwy 3: Standard with minimum climb of 400' per NM to 2700.
- Rwy 21: Standard with minimum climb of 450' per NM to 2900.
- Rwy 10R: Standard with minimum climb of 375' per NM to 2700.
- Rwy 10L: Standard with minimum climb of 350' per NM to 2700.
- Rwy 28L: Standard with minimum climb of 375' per NM to 2900.
- Rwy 28R: Standard with minimum climb of 350' per NM to 2900.

NOTE: RADAR REQUIRED.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb heading 025° to 600 thence....

TAKE-OFF RWY 10L: Climb heading 099° to 500 thence...

TAKE-OFF RWY 10R: Climb heading 099° to 500 thence....

TAKE-OFF RWY 28L: Climb heading 279° to 800 thence....

TAKE-OFF RWY 28R: Climb heading 279° to 800 thence....

TAKE-OFF RWY 21: Climb heading 205° to 500 thence....

....via assigned heading expect radar vectors to assigned route/fix. Maintain 3000, expect filed altitude five minutes after departures.

LOST COMMUNICATIONS: If no contact with ATC within 10 NM of airport, continue climb to assigned altitude and proceed direct BTG VORTAC. Continue climb via BTG R-329 within 10 NM to cross BTG VORTAC: BTG R-355 clockwise R-055 or R-085 clockwise R-115 at or above 5000 feet. Continue climb on course.

TAKE-OFF OBSTACLE NOTES:

Rwy 3: Signs, tower, trees, and vehicle on road beginning 468' from DER, 28' left of centerline, up to 100' AGL/449' MSL.

Poles, trees, and vehicle on road beginning 609' from DER, 7' left of centerline, up to 100' AGL/416' MSL.

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL.

Rwy 21: Trees beginning 1319' from DER, 155' right of centerline, up to 100' AGL/318' MSL.

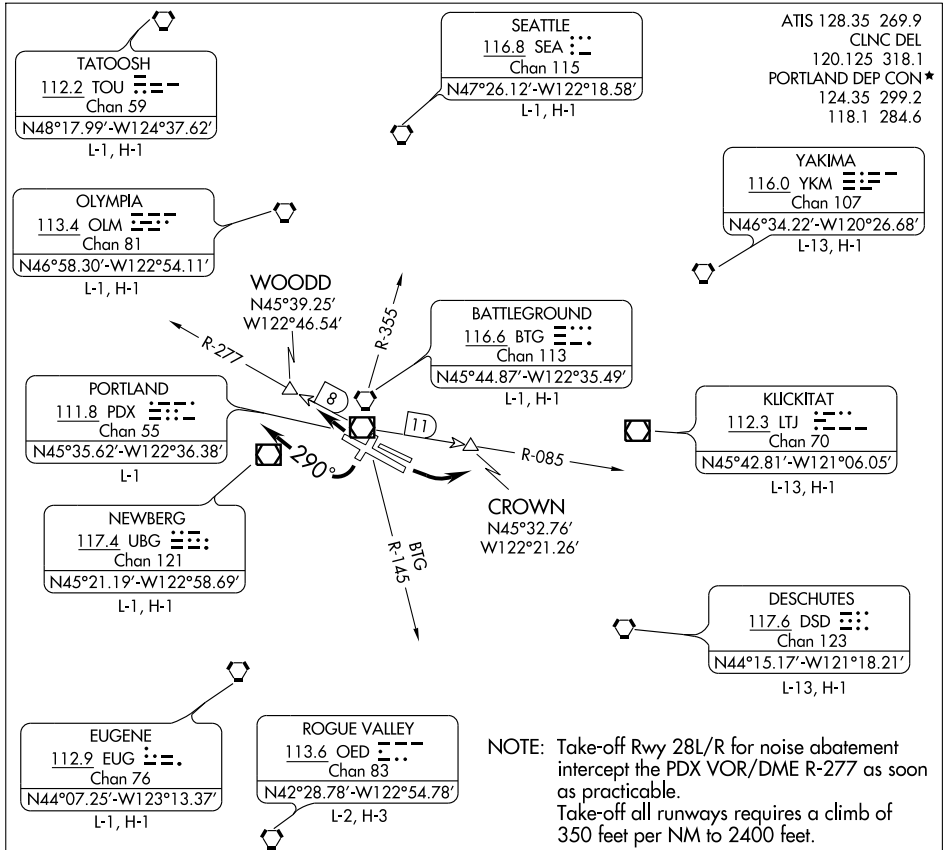
Poles and trees beginning 353' from DER, 36' left of centerline, up to 100' AGL/317' MSL.

Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

RIVER SIX DEPARTURE

SL-330 (FAA)

PORTLAND INTL (PDX)
PORTLAND, OREGON

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 10L/R: Turn left, intercept and proceed via the PDX R-085 or as assigned, expect radar vectors to assigned route. Expect filed altitude/flight level 5 minutes after departure.

TAKE-OFF RUNWAY 21: Turn right fly heading 290° or as assigned, expect radar vectors on course. Expect filed altitude/flight level 5 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Intercept and proceed via the PDX R-277 or as assigned, expect radar vectors to assigned route. Expect filed altitude/flight level 5 minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC within 10 NM of airport or leaving 3,000', continue climb to assigned altitude and proceed direct to BTG VORTAC, thence via (assigned route). If proceeding via BTG VORTAC R-355 CW R-145, a 340 feet per NM climb is required to 13800 feet.

ALTERNATE LOST COMMUNICATIONS: When BTG VORTAC is out of service: If no contact with ATC leaving 3,000', continue climb to assigned altitude direct UBG VOR/DME.

WAAS
CH 81804
W10B

APP CRS
099°

Rwy Idg
TDZE
Apt Elev

8000
30
30

▼

DME/DME RNP-0.3 NA.

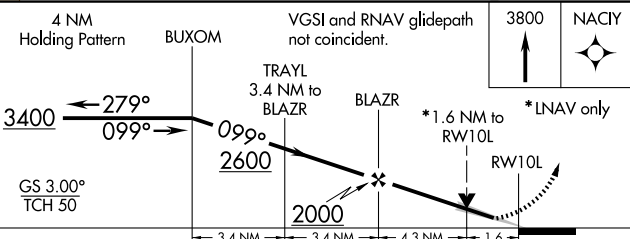
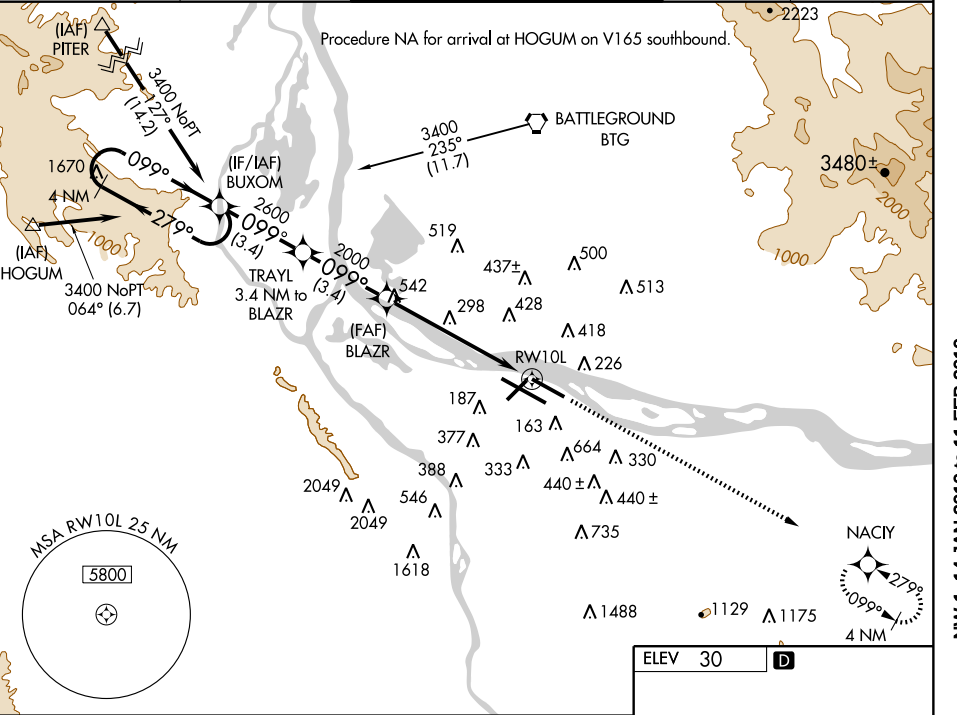
▲

For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -1.5°C (5°F) or above 49°C (120°F).

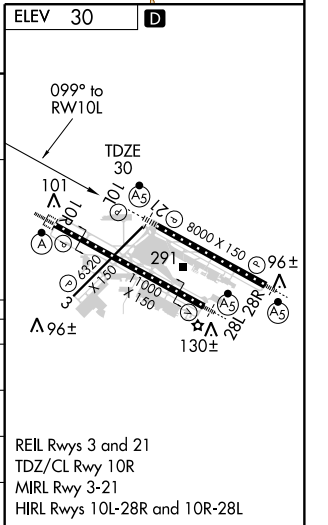
MALSR

MISSED APPROACH: Climb to 3800 direct NACIY WP and hold.

ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8	Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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CATEGORY	A	B	C	D
LPV DA	330/24 300 (300-½)			
LNAV/VNAV DA	800-2¼ 770 (800-2¼)			800-2½ 770 (800-2½)
LNAV MDA	580/24 550 (600-½)	580/50 550 (600-1)		580/60 550 (600-1¼)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)



NW-1. 14 JAN 2010 to 11 FEB 2010

WAAS CH 40004 W10A	APP CRS 099°	Rwy Idg 11000 TDZE 24 Apt Elev 30
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RNAV (GPS) RWY 10R
PORTLAND INTL (PDX)

- T** DME/DME RNP-0.3 NA. Baro-VNAV NA below -16°C (4F).
A Inoperative table does not apply to LNAV/VNAV all Cats.
 For inoperative ALSF-2 increase LPV visibility to RVR 6000.

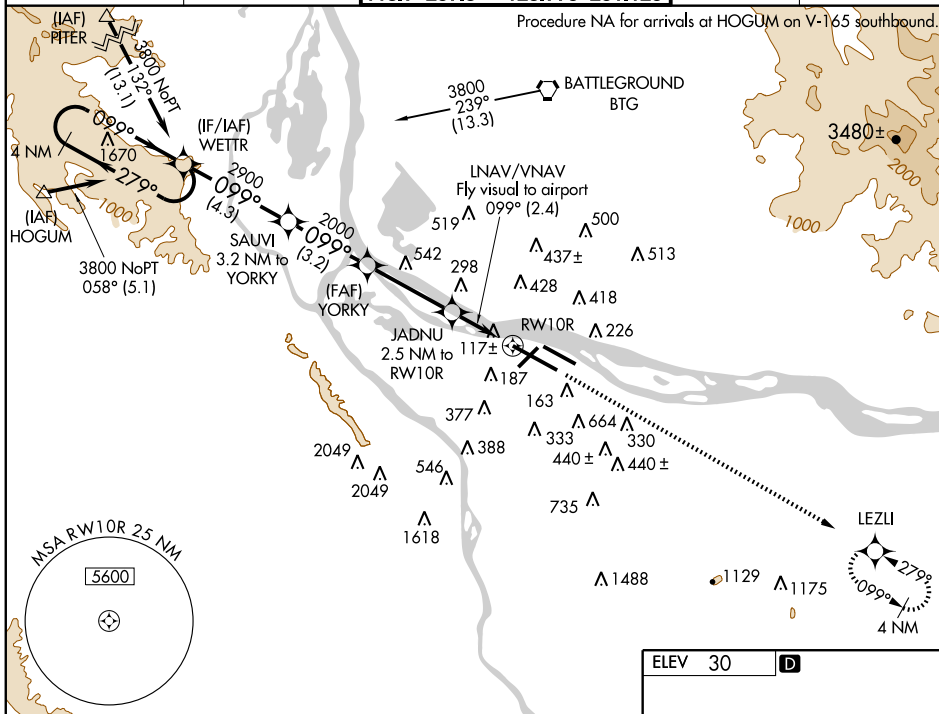
ALSF-2



MISSED APPROACH: Climb to 3500 direct LEZLI and hold.

ATIS 128.35 269.9	PORTLAND APP CON * 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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Procedure NA for arrivals at HOGUM on V-165 southbound.



NW-1. 14 JAN 2010 to 11 FEB 2010

4 NM Holding Pattern

WETTR

SAUVI 3.2 NM to YORKY

YORKY

JADNU 2.5 NM to RW10R

3500

LEZLI

3800 ← 279°

099° →

099°

2900

GS 3.00° TCH 53

2000

860

*1.5 NM to RW10R

RW10R

*LNNAV only

LNNAV/VNAV Fly Visual 099° 2.4 NM

4.3 NM

3.2 NM

3.4 NM

1 NM

1.5 NM

VGS1 and RNAV glidepath not coincident.

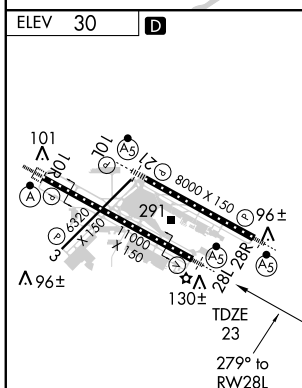
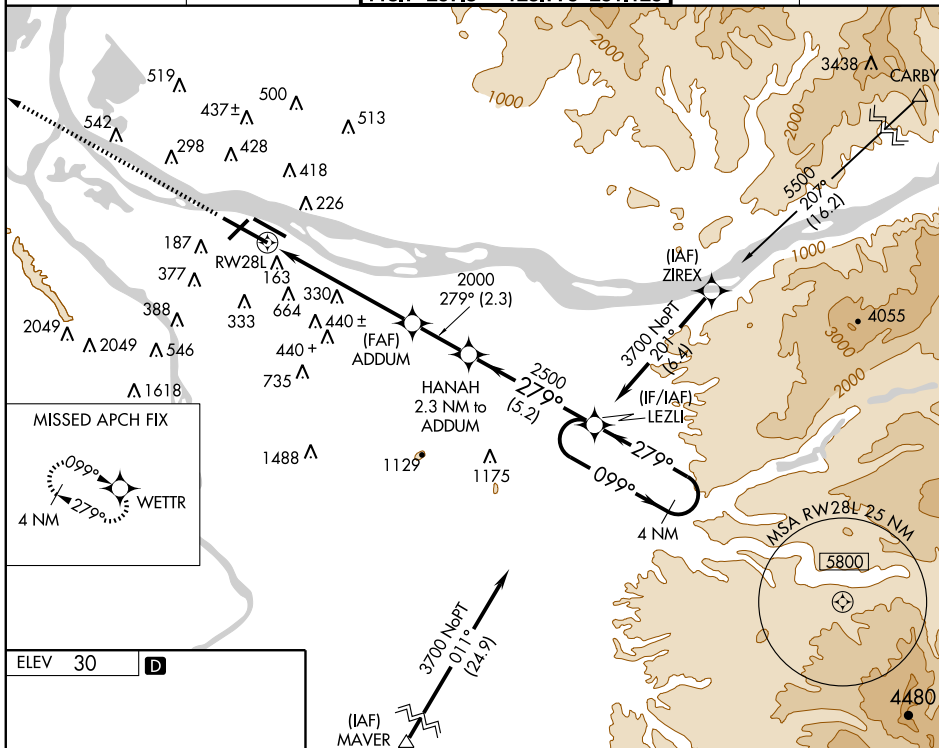
CATEGORY	A	B	C	D
LPV DA	390/40 366 (400-34)			
LNAV/VNAV DA	660-2 636 (700-2)			
LNAV MDA	540/24 516 (600-½)	540/50 516 (600-1)	540/60 516 (600-1¼)	
CIRCLING	720-5 690 (700-5)	740-5 710 (800-5)	1020-5 990 (1000-5)	

[illegible]

WAAS CH 56205 W28B	APP CRS 279°	Rwy Idg 11000 TDZE 23 Apt Elev 30
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RNAV (GPS) RWY 28L
PORTLAND INTL (PDX)

 DME/DME RNP-0.3 NA.		MALSR 	MISSED APPROACH: Climb to 3800 direct WETTR and hold.	
ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125		GND CON 121.9 348.6
				CLNC DEL 120.125 318.1



3800 ↑ WETTR 		VGSI and RNAV glidepath not coincident.			
*LNAV only					

REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

WAAS CH 60905 W28A	APP CRS 279°	Rwy Idg 8000 TDZE 30 Apt Elev 30
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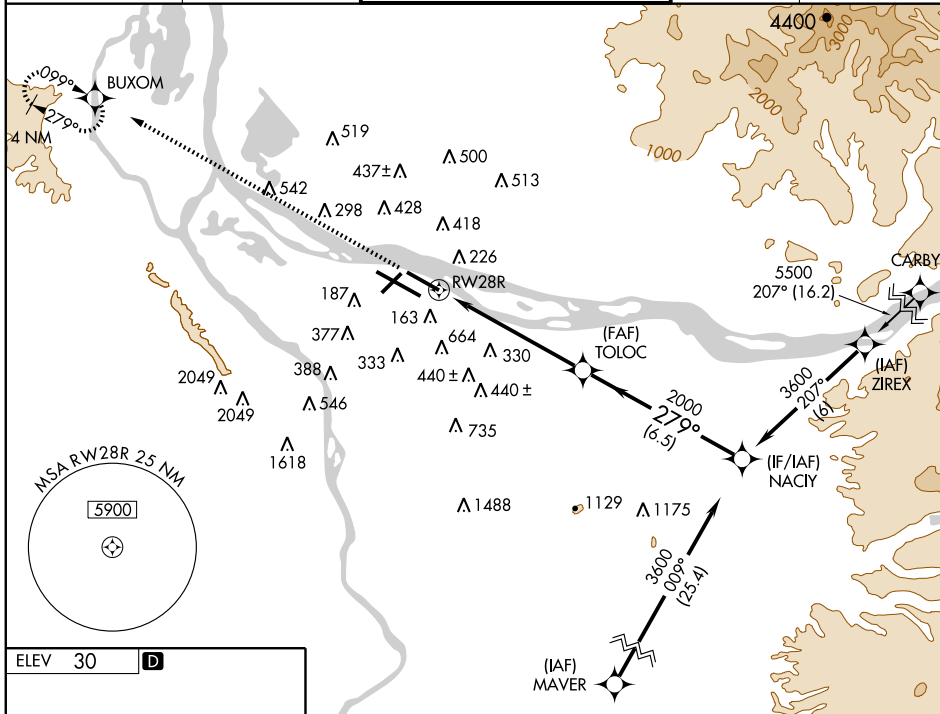
RNAV (GPS) RWY 28R
PORTLAND INTL (PDX)

T DME/DME RNP-0.3 NA. Baro-VNAV NA below -16°C (4°F).
A For inoperative MALSR increase LNAV Cat A and B visibility to RVR 5000.
 For inoperative MALSR increase LPV visibility to RVR 5000 all Cats.

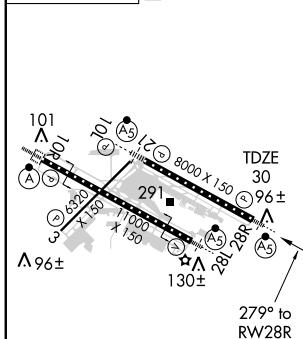
MALSR

MISSED APPROACH: Climb to 3400 direct BUXOM and hold.

ATIS 128.35 269.9	PORTLAND APP CON * 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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ELEV	30	D
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REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

3400
↑
BUXOM

* LNAV only

RW28R

1.6 NM to RW28R

TOLOC

NACIY

Procedure Turn NA

3600

279°

2000

GS 3.00°
TCH 65

1.6 4.3 NM 6.5 NM

CATEGORY	A	B	C	D
LPV DA	320/40 290 (300-¾)			
LNAV/VNAV DA	540/60 510 (600-1¼)			
LNAV MDA	600/40 570 (600-¾)	600/50 570 (600-1)		600/60 570 (600-1¼)
CIRCLING	720-1¾ 690 (700-1¾)	740-1¾ 710 (800-1¾)	740-2 710 (800-2)	1020-3 990 (1000-3)

TACAN CBU Chan 29	APCH CRS 277°	Rwy Idg 11,000 TDZE 23 Arpt Elev 30
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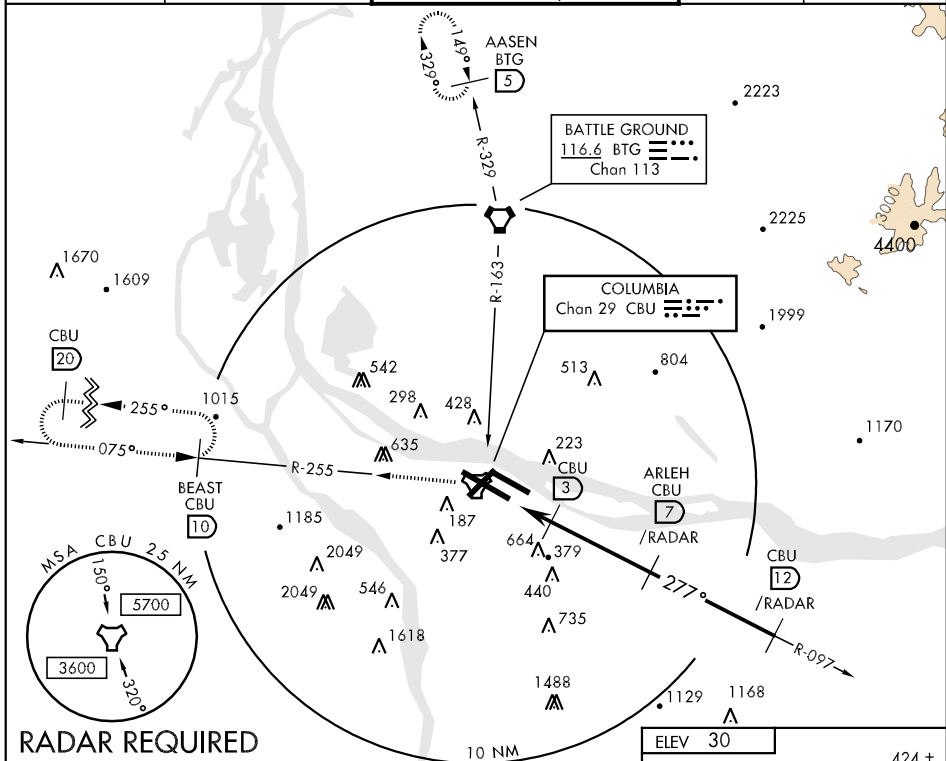
AL-330 [USAF]

PORTLAND INTL (KPDX)

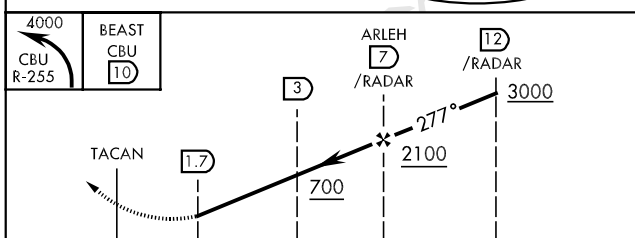


MISSED APPROACH: Climbing left turn to 4000 via CBU R-255 to BEAST INT/CBU 10 DME and hold, or when directed by ATC climb to 4000 via BTG R-163 to BTG VORTAC then via BTG R-329 to AASEN INT and hold.

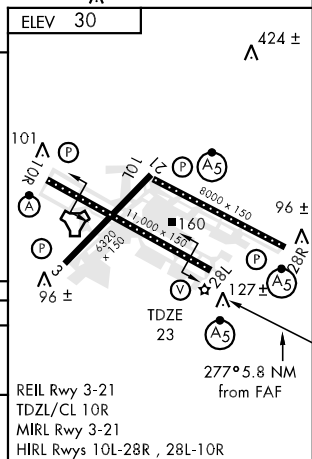
ARR	ATIS	DEP	PORTLAND APP CON		PORTLAND TOWER		GND CON		CLNC DEL	
128.35	120.625		100°279	118.1	284.6	118.7	257.8 Rwy 10L-28R			
269.9	239.25		280°099	124.35	299.2	123.775	251.125 Rwy 3-21, 10R-28L	121.9	348.6	120.125 318.1



RADAR REQUIRED



					
CATEGORY	A	B	C	D	E
S-28L	600/50 577 (600-1)		600-1½ 577 (600-1½)	600-1¾ 577 (600-1¾)	600-2 577 (600-2)
CIRCLING	720-1 690 (700-1)		740-2 710 (800-2)	980-3 950 (1000-3)	1060-3 1030 (1100-3)



VORTAC BTG <u>116.6</u> Chan 113	APP CRS 161°	Rwy Idg TDZE Apt Elev	N/A N/A 30
--	------------------------	-----------------------------	---------------------------------------

VOR-A

PORTLAND INTL (PDX)



MISSED APPROACH: Climbing left turn to 4000 via BTG R-160 to BTG VORTAC.

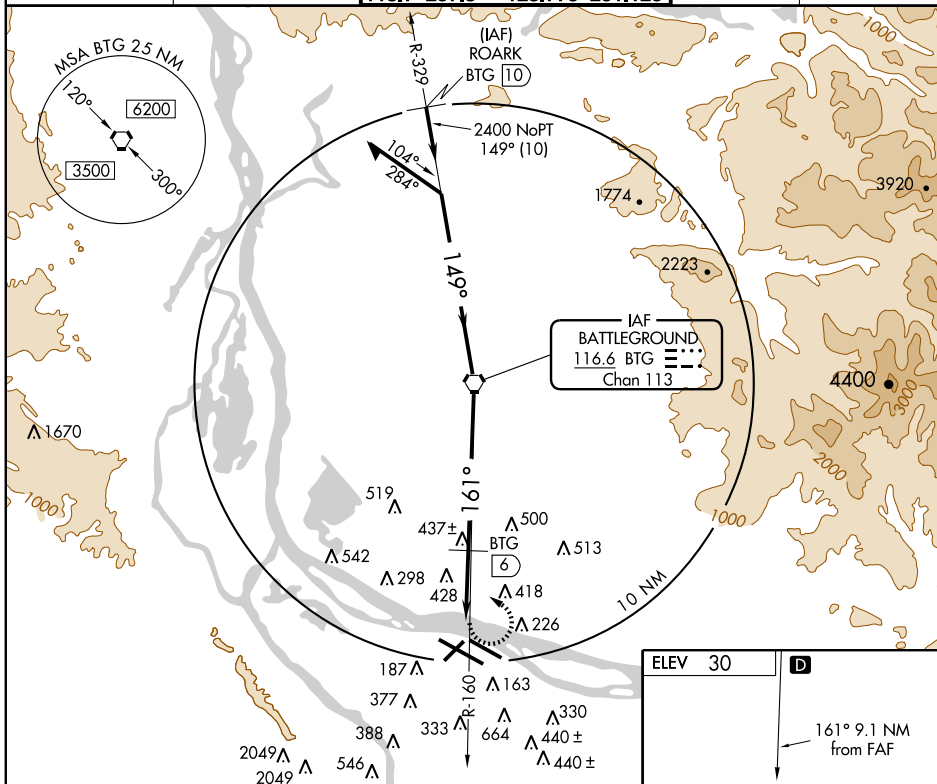
ATIS
128.35 269.9

PORTLAND APP CON ★
124.35 299.2

PORTLAND TOWER			
Rwy 10L-28R		Rwys 3-21, 10R-28L	
118.7	257.8	123.775	251.125

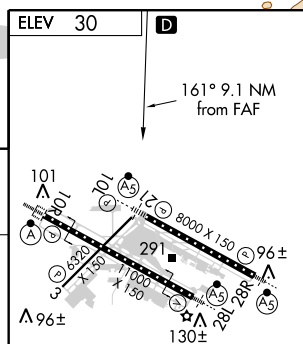
GND CON
121.9 348.6

CLNC DEL
120,125 318,1



4000 BTG R-160	BTG  <u>116.6</u>
----------------------	--

BTG
9.1



REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

FAF to MAP 9.1 NM

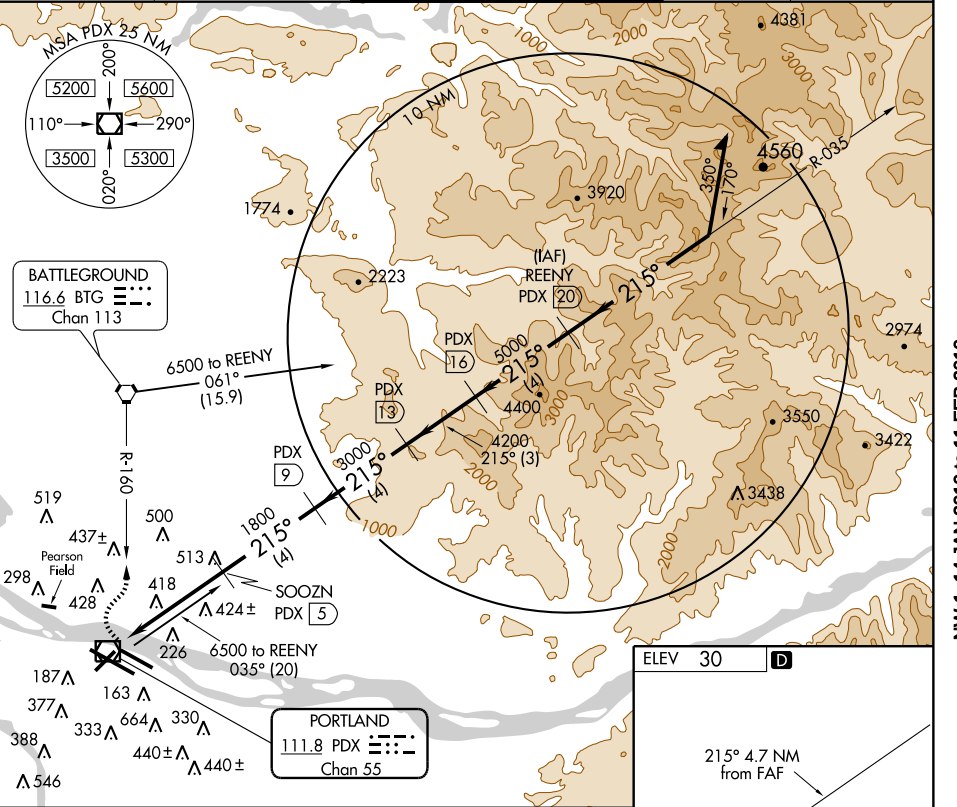
CATEGORY	A	B	C	D
CIRCLING	880-1 850 (900-1)	880-1¼ 850 (900-1¼)	880-2½ 850 (900-2½)	1020-3 990 (1000-3)
DME MINIMA				
CIRCLING	740-1 710 (800-1)		740-2 710 (800-2)	1020-3 990 (1000-3)

Knots	60	90	120	150	180
Min:Sec	9:06	6:04	4:33	3:38	3:02

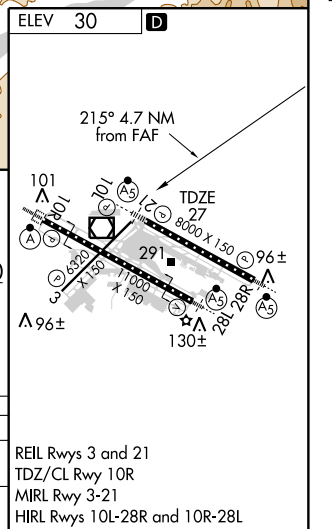
 Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing right turn to 4000
via BTG R-160 to BTG VORTAC.

ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251,125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
----------------------	------------------------------------	---	------------------------	---------------------------



4000 BTG R-160	BTG 116.6	VGSI and descent angle not coincident.			REENY PDX 20	Remain within 10 NM
PDX 0.3	SOOZN PDX 5	PDX 9	PDX 13	PDX 16	215° 6000	
3.42° TCH 55	1800	3000	4200	5000	6000	
4.7 NM	4 NM	4 NM	3 NM	4 NM		
CATEGORY	A	B	C	D		
S-21	720-1 693 (700-1)	720-2 693 (700-2)	720-2 1/4 693 (700-2 1/4)	720-2 1/4 693 (700-2 1/4)		
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)		



REIL Rwys 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwys 10L-28R and 10R-28L

VOR/DME PDX 111.8 Chan 55	APP CRS 272°	Rwy Idg 8000 TDZE 26 Apt Elev 30
---	------------------------	---

VOR RWY 28R
PORTLAND INTL (PDX)

T
A Inoperative table applies only to Cat. C and D.

MALSR

MISSED APPROACH: Climbing right turn to 4000
via BTG R-160 to BTG VORTAC.

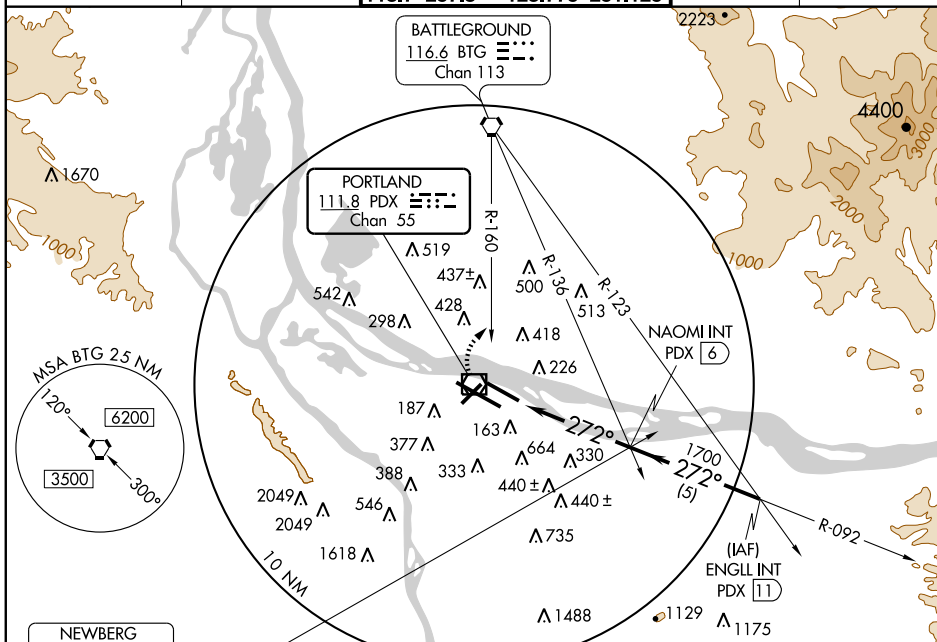
ATIS
128.35 269.9

PORTLAND APP CON ★	124.35	299.2
--------------------	--------	-------

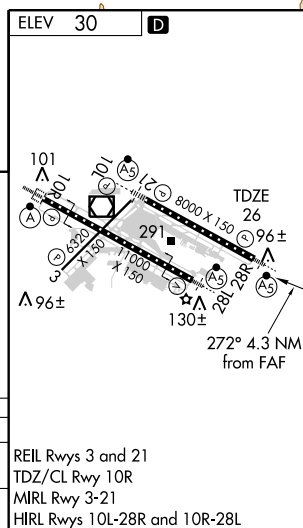
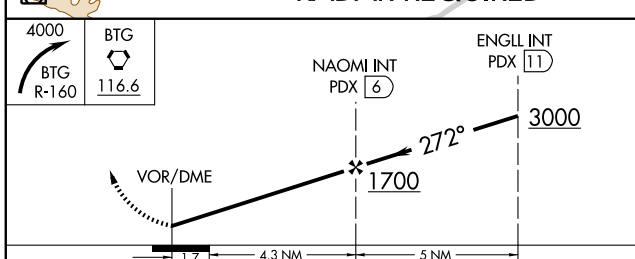
PORTLAND TOWER			
Rwy 10L-28R		Rwys 3-21, 10R-28L	
118.7	257.8	123.775	251.125

GND CON	
121.9	348.6

CLNC DEL
120.125 318.1



RADAR REQUIRED

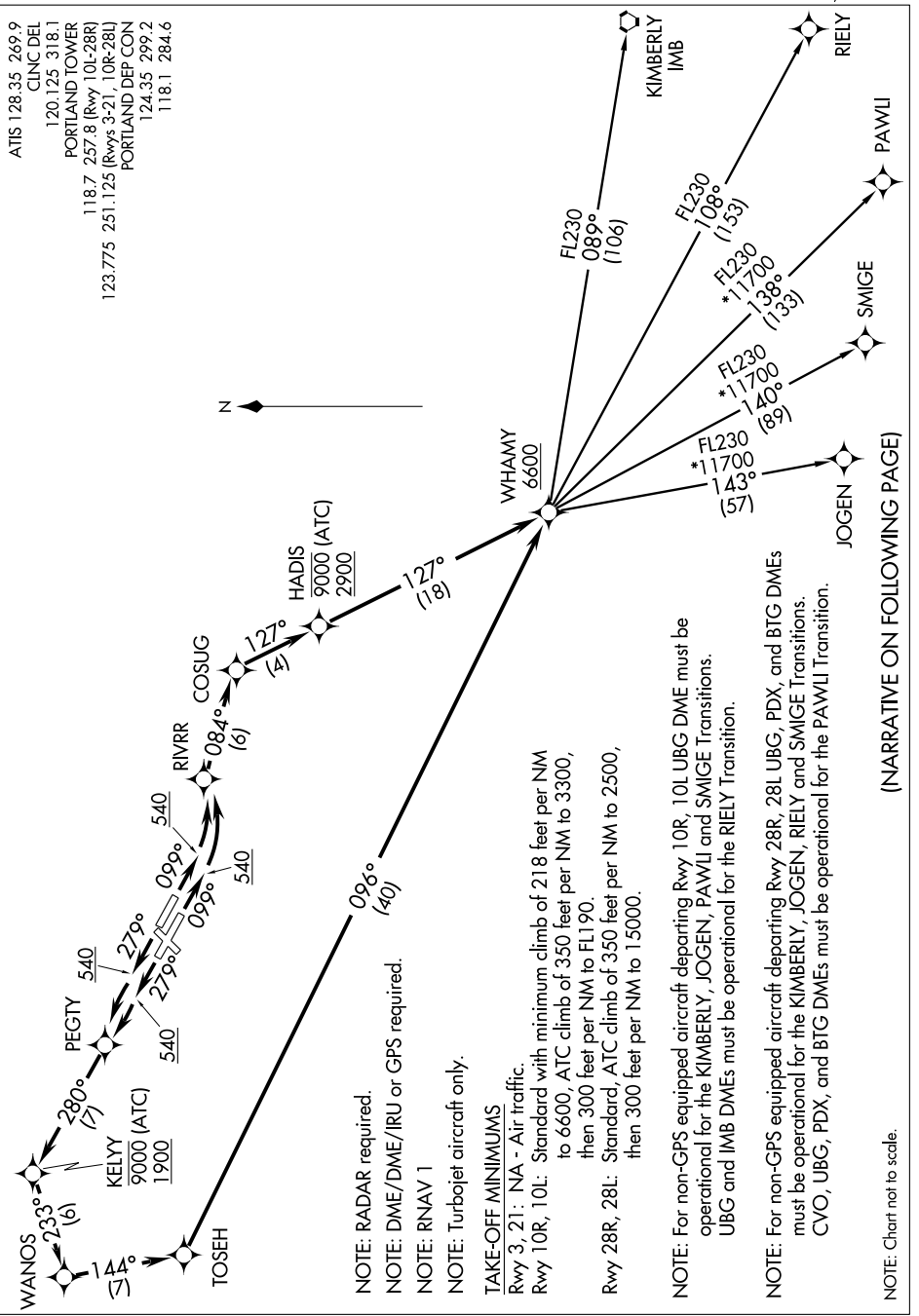


WHAMY ONE DEPARTURE (RNAV)

SL-330 (FAA)

PORTLAND INTL (PDX)
PORTLAND, OREGON

ATIS 128.35 269.9
CLNC DEL
120.125 318.1
PORTLAND TOWER
118.7 257.8 (Rwy 10L-28R)
123.775 251.125 (Rwys 3-21, 10R-28L)
PORTLAND DEP COIN
124.35 299.2
118.1 284.6



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1
NOTE: Turbojet aircraft only.

TAKE-OFF MINIMUMS
Rwy 3, 21: NA - Air traffic.
Rwy 10R, 10L: Standard with minimum climb of 218 feet per NM to 6600, ATC climb of 350 feet per NM to 3300, then 300 feet per NM to FL190.
Rwy 28R, 28L: Standard. ATC climb of 350 feet per NM to 2500, then 300 feet per NM to 15000.

NOTE: For non-GPS equipped aircraft departing Rwy 10R, 10L UBG DME must be operational for the KIMBERLY, JOGEN, PAWLI and SMIGE Transitions.
UBG and IMB DMEs must be operational for the RIELY Transition.

NOTE: For non-GPS equipped aircraft departing Rwy 28R, 28L UBG, PDX, and BTG DMEs must be operational for the KIMBERLY, JOGEN, RIELY and SMIGE Transitions.
CVO, UBG, PDX, and BTG DMEs must be operational for the PAWLI Transition.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 127° track to cross HADIS at or below 9000 (ATC)/2900, then via 127° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 127° track to cross HADIS at or below 9000 (ATC)/2900, then via 127° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 096° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 096° track to WHAMY, cross WHAMY at or above 6600, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

JOGEN TRANSITION (WHAMY1.JOGEN)

KIMBERLY TRANSITION (WHAMY1.IMB)

PAWLI TRANSITION (WHAMY1.PAWLI)

RIELY TRANSITION (WHAMY1.RIELY)

SMIGE TRANSITION (WHAMY1.SMIGE)

TAKE-OFF OBSTACLE NOTES

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL

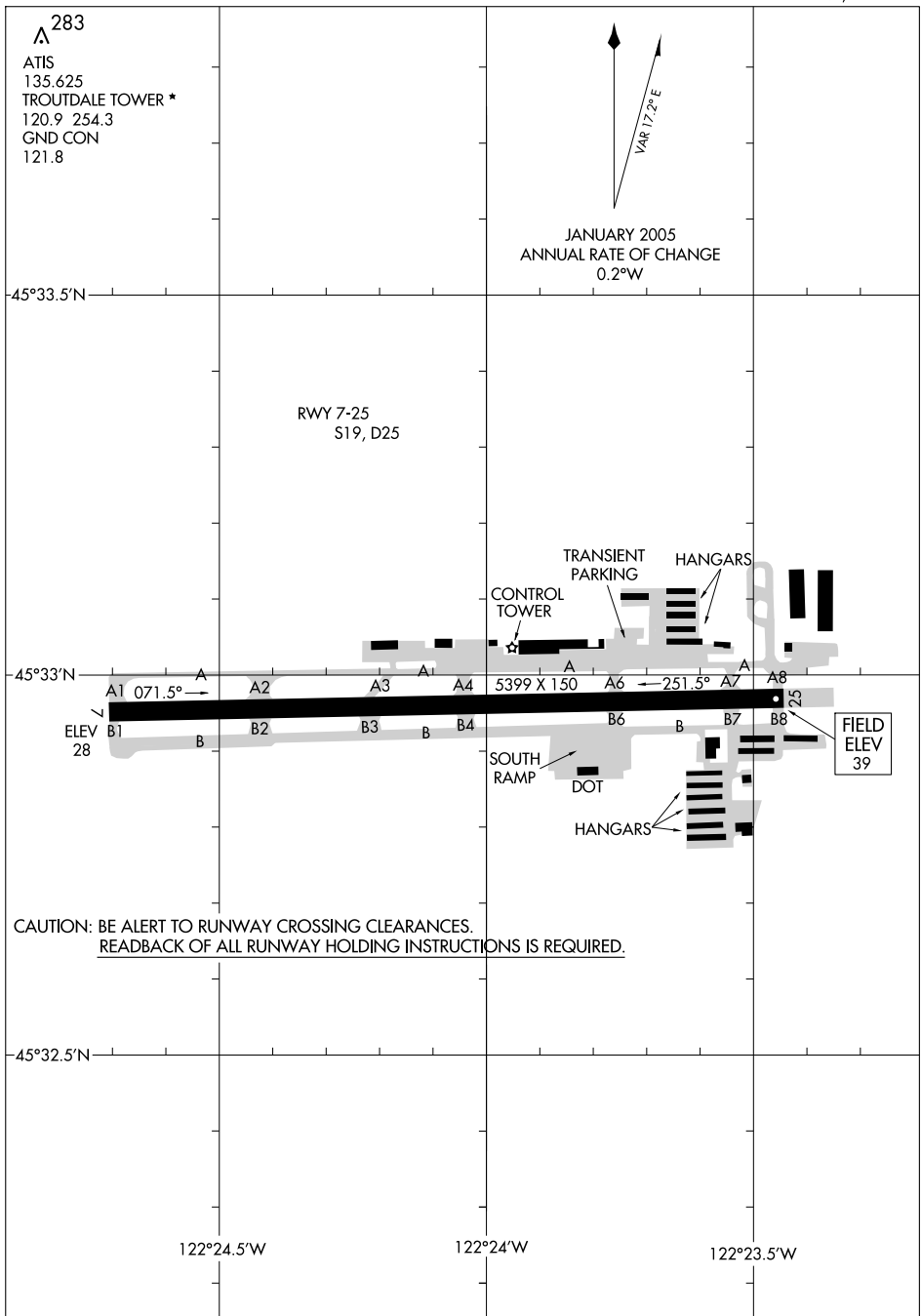
Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

AIRPORT DIAGRAM

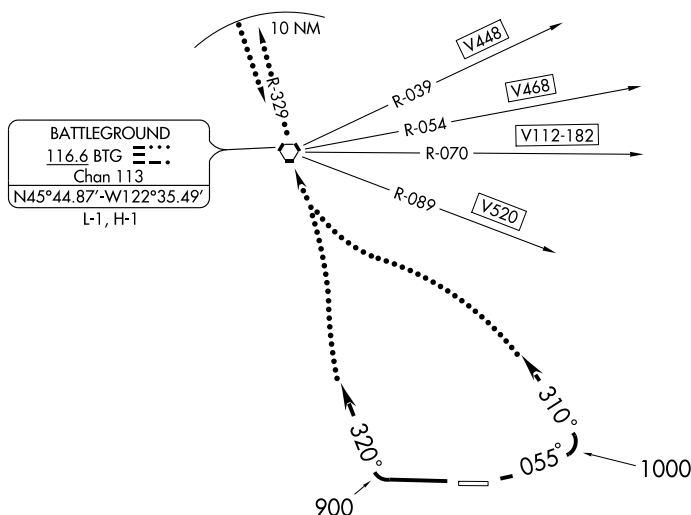
AL-649 (FAA)

PORTLAND-TROUTDALE (TTD)
PORTLAND, OREGON



NW-1. 14 JAN 2010 to 11 FEB 2010

CTAF 120.9



NOTE: Rwy 7 requires a minimum climb gradient of 420' per NM to 4000'.

Rwy 25 requires a minimum climb of 310' per NM to 2000'.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Climb via heading 055° to 1000', then turn left to 310° or as assigned.

TAKE-OFF RUNWAY 25: Climb runway heading to 900', then turn right to 320° or as assigned.

LOST COMMUNICATIONS: Proceed direct to BTG VORTAC. Continue climb on the BTG R-329 within 10 NM to cross BTG VORTAC at or above: NE-bound V448, 9400'; NE-bound V468, 4500'; E-bound V112, V182, V520, 4700'; for non airways BTG R-355 CW BTG R-120, 8800'; all others, 2500'.

ALTERNATE LOST COMMUNICATIONS PROCEDURE: When BTG VORTAC is out of service: if no contact with ATC leaving 3000', continue climb to assigned altitude and proceed direct to UBG VOR/DME, thence via assigned route.

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

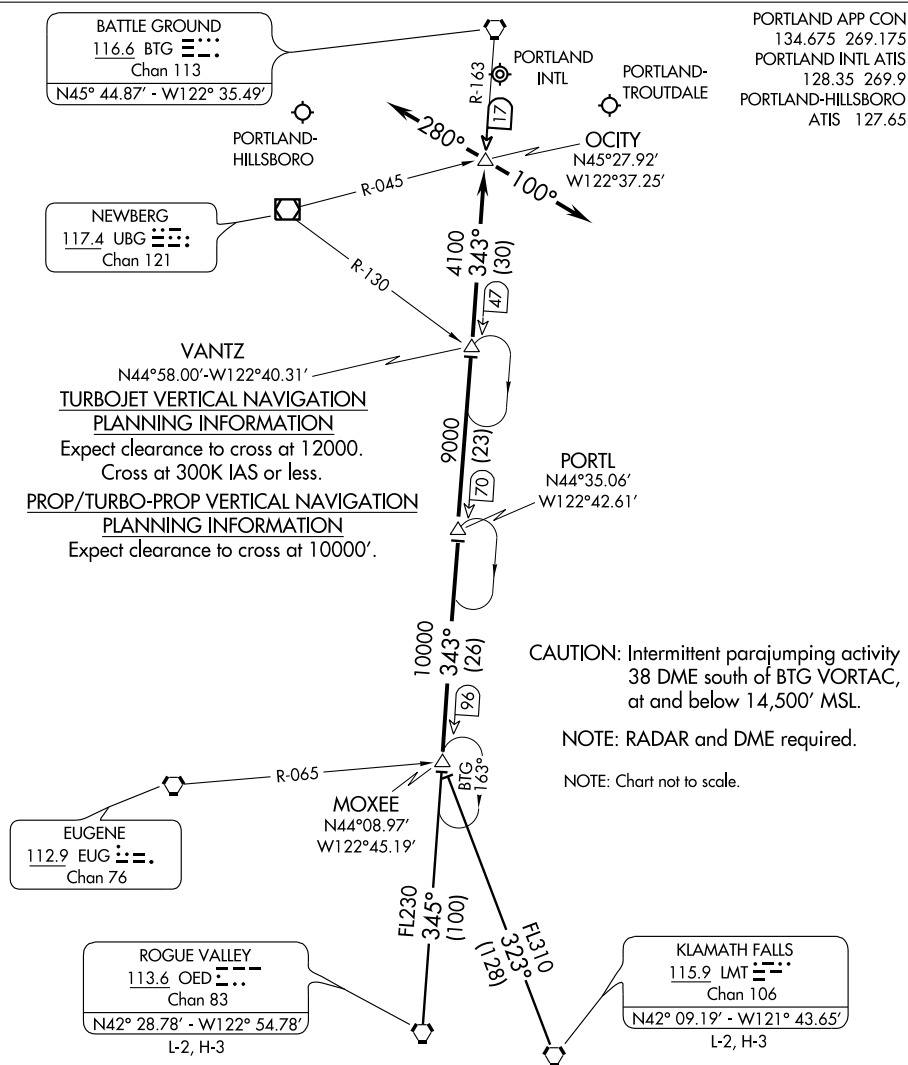
NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.



KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence

. . . . From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

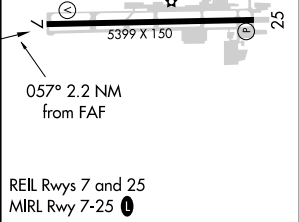
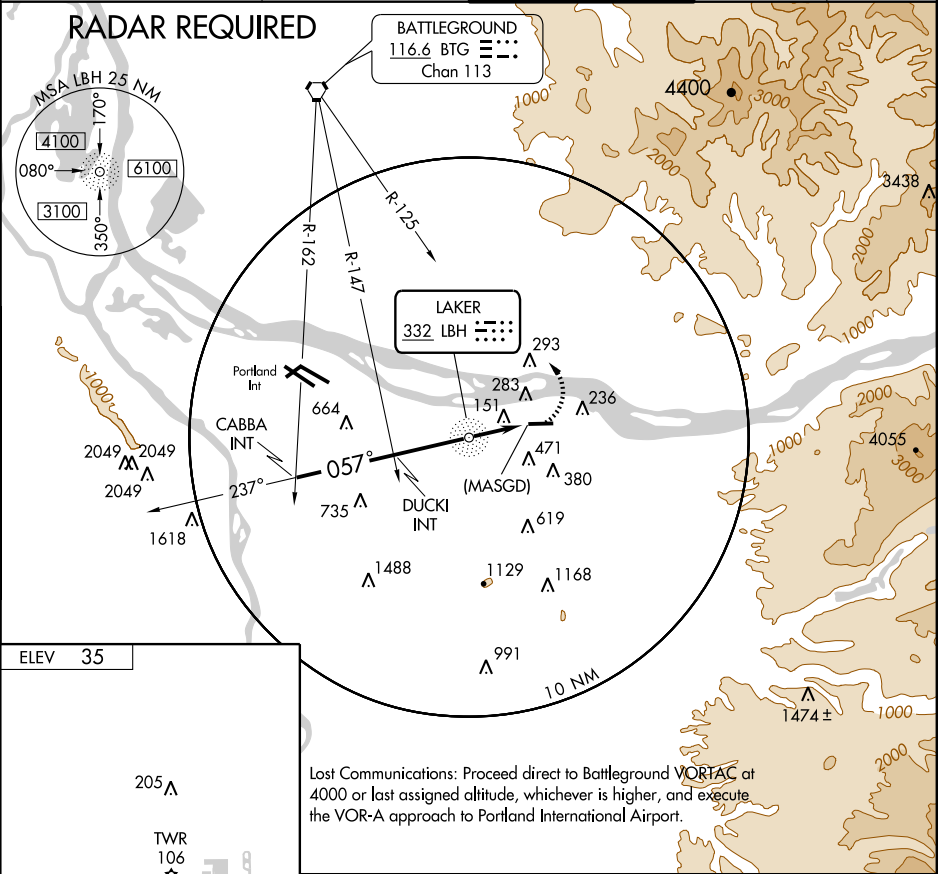
Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

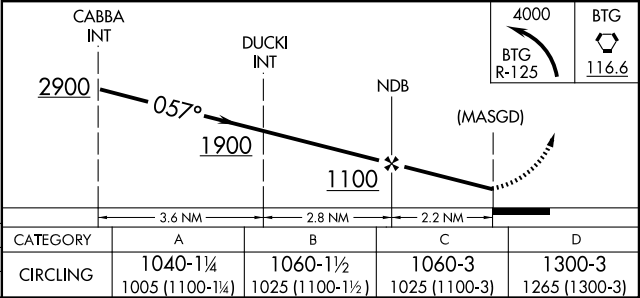
NDB LBH	APP CRS	Rwy Idg TDZE	N/A
332	057°	Apt Elev	35

NDB or GPS-A
PORTLAND-TROUTDALE (TTD)

If local altimeter setting not received procedure not authorized.		MISSED APPROACH: Climbing left turn to 4000 via BTG R-125 to BTG VORTAC.	
ATIS 135.625	PORTLAND APP CON 124.35 299.2	TROUTDALE TOWER ★ 120.9 (CTAF) 254.3	GND CON 121.8
		UNICOM 122.95	



FAF to MAP 2.2 NM					
Knots	60	90	120	150	180
Min:Sec	2:12	1:28	1:06	0:53	0:44



DESCHUTES ONE DEPARTURE (RNAV)

SEATTLE CENTER
128.15 257.75
UNICOM 122.8 (CTAF)

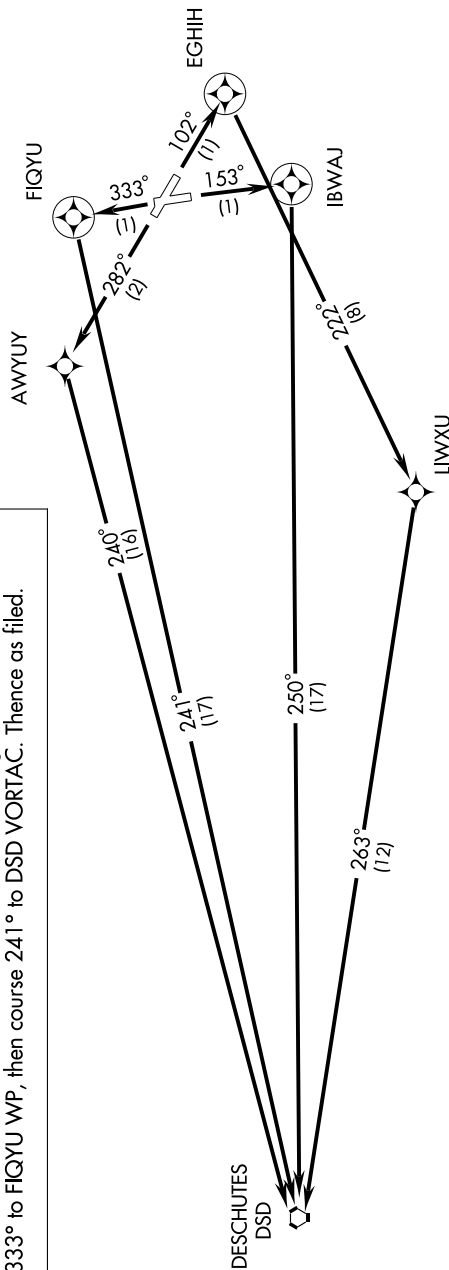
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10: Climb to 9000 (or ATC assigned altitude) via course 102° to EGHIIH WP, then course 222° to LIWXU WP, then course 263° to DSD VORTAC. Thence as filed.

TAKE-OFF RUNWAY 15: Climb to 9000 (or ATC assigned altitude) via course 153° to IBWAJ WP, then course 250° to DSD VORTAC. Thence as filed.

TAKE-OFF RUNWAY 28: Climb to 9000 (or ATC assigned altitude) via course 282° to AWYUY WP, then course 240° to DSD VORTAC. Thence as filed.

TAKE-OFF RUNWAY 33: Climb to 9000 (or ATC assigned altitude) via course 333° to FIQYU WP, then course 241° to DSD VORTAC. Thence as filed.



NOTE: Standard with minimum climb gradient of 400' per NM to 9000', except V25 North requires minimum climb gradient of 400' per NM to 7000'.

NOTE: 1. GPS Required.

2. RNAV 1

NOTE: Chart not to scale.

▼

▲ NA

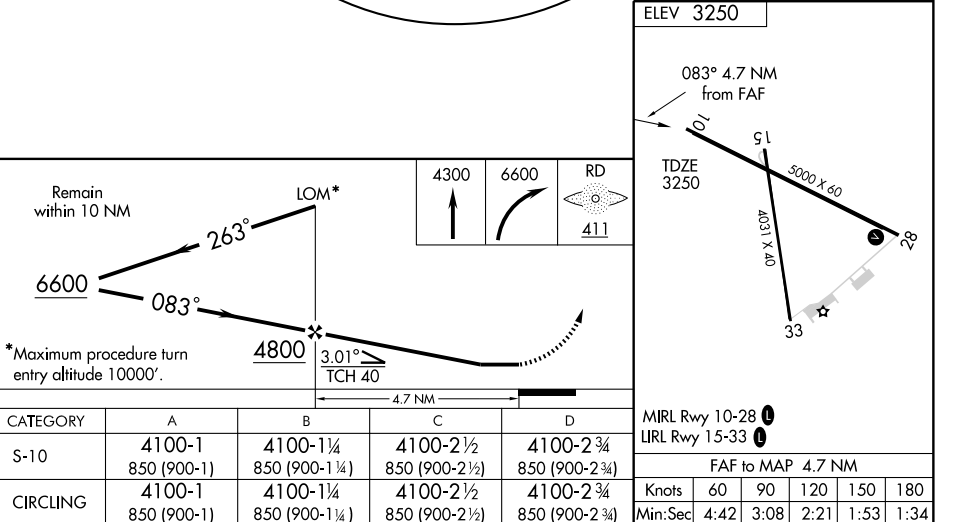
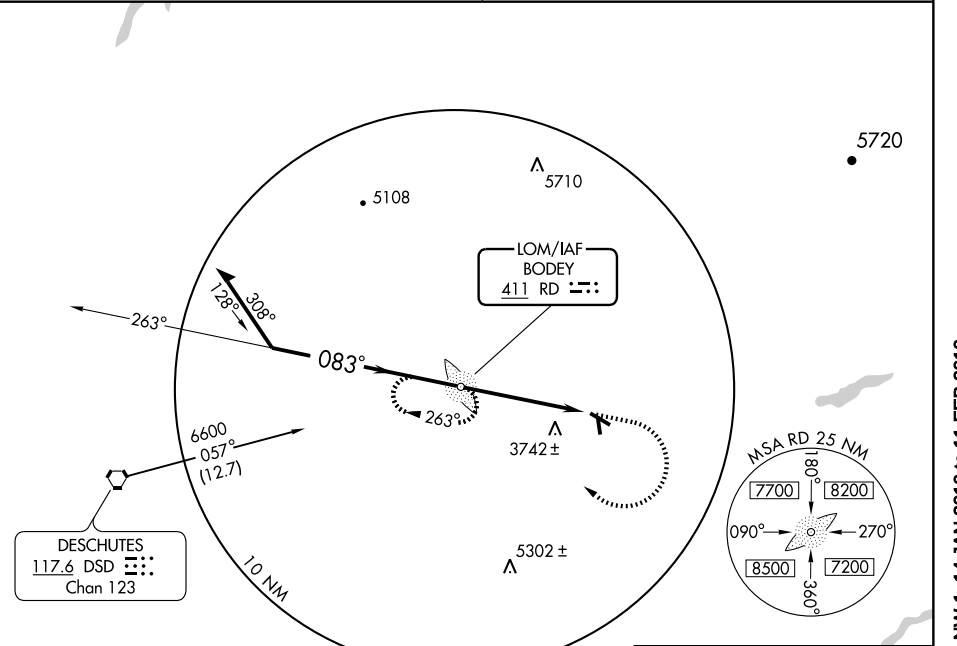
Use Roberts Field altimeter setting.
 MISSED APPROACH: Climb to 4300 then climbing right turn to 6600 direct RD LOM and hold.

SEATTLE CENTER

128.15 257.75

UNICOM

122.8 (CTAF) 0

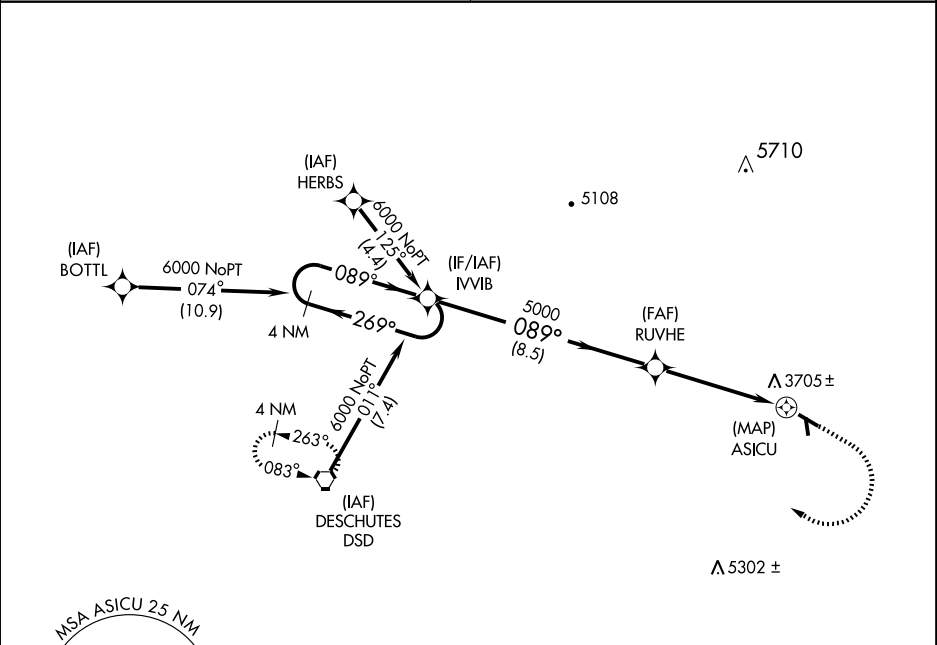


APP CRS 089°	Rwy Idg TDZE Apt Elev 5000 3250 3250
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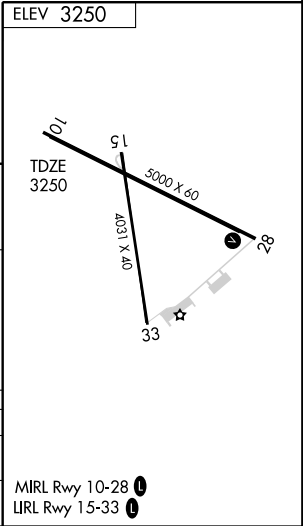
RNAV (GPS) RWY 10
PRINEVILLE (S39)

▼ GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct DSD VORTAC and hold.
▲ NA Use Roberts Field altimeter setting.	

SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
--	--



4 NM Holding Pattern				
6000 ← 269° / 089° →				
RUVHE 5000				
8.5 NM 4.9 NM 0.5				
CATEGORY	A	B	C	D
LNAV MDA	4020-1 770 (800-1)	4020-1¼ 770 (800-1¼)	4020-2¼ 770 (800-2¼)	4020-2½ 770 (800-2½)
CIRCLING	4060-1 810 (900-1)	4100-1¼ 850 (900-1¼)	4100-2½ 850 (900-2½)	4100-2¾ 850 (900-2¾)



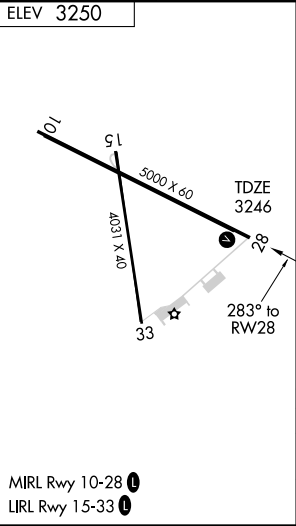
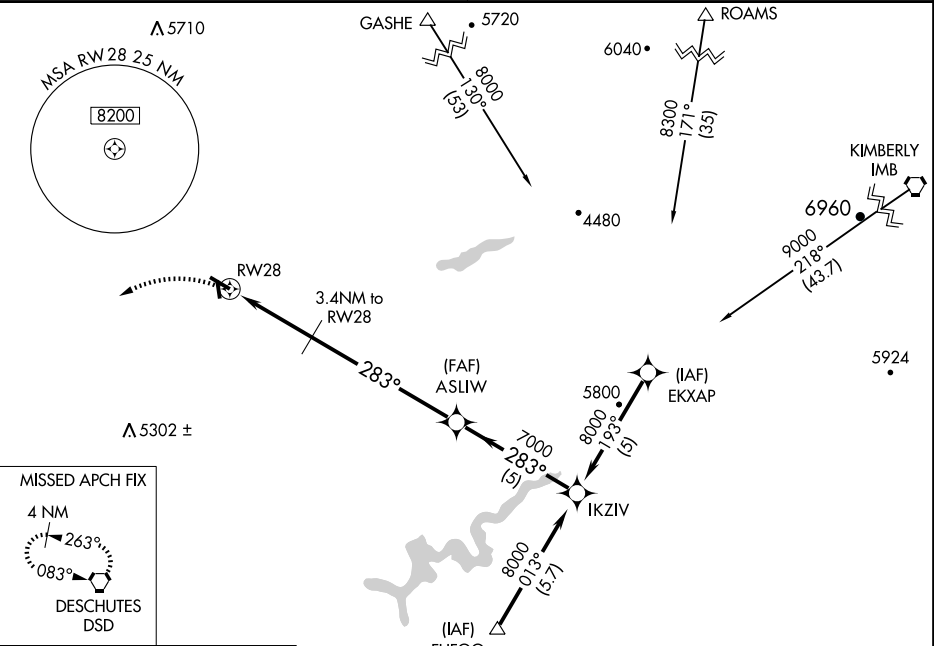
APP CRS	Rwy Idg	5000
283°	TDZE	3246
	Apt Elev	3250

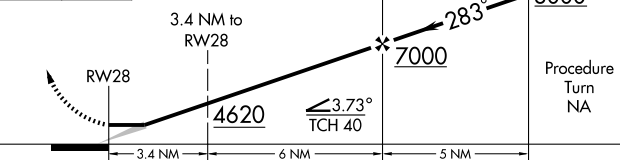
RNAV (GPS) RWY 28

PRINEVILLE (S39)

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climbing left turn to 7000 direct DSD VORTAC and hold.
NA	

SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF)
---------------------------------	------------------------

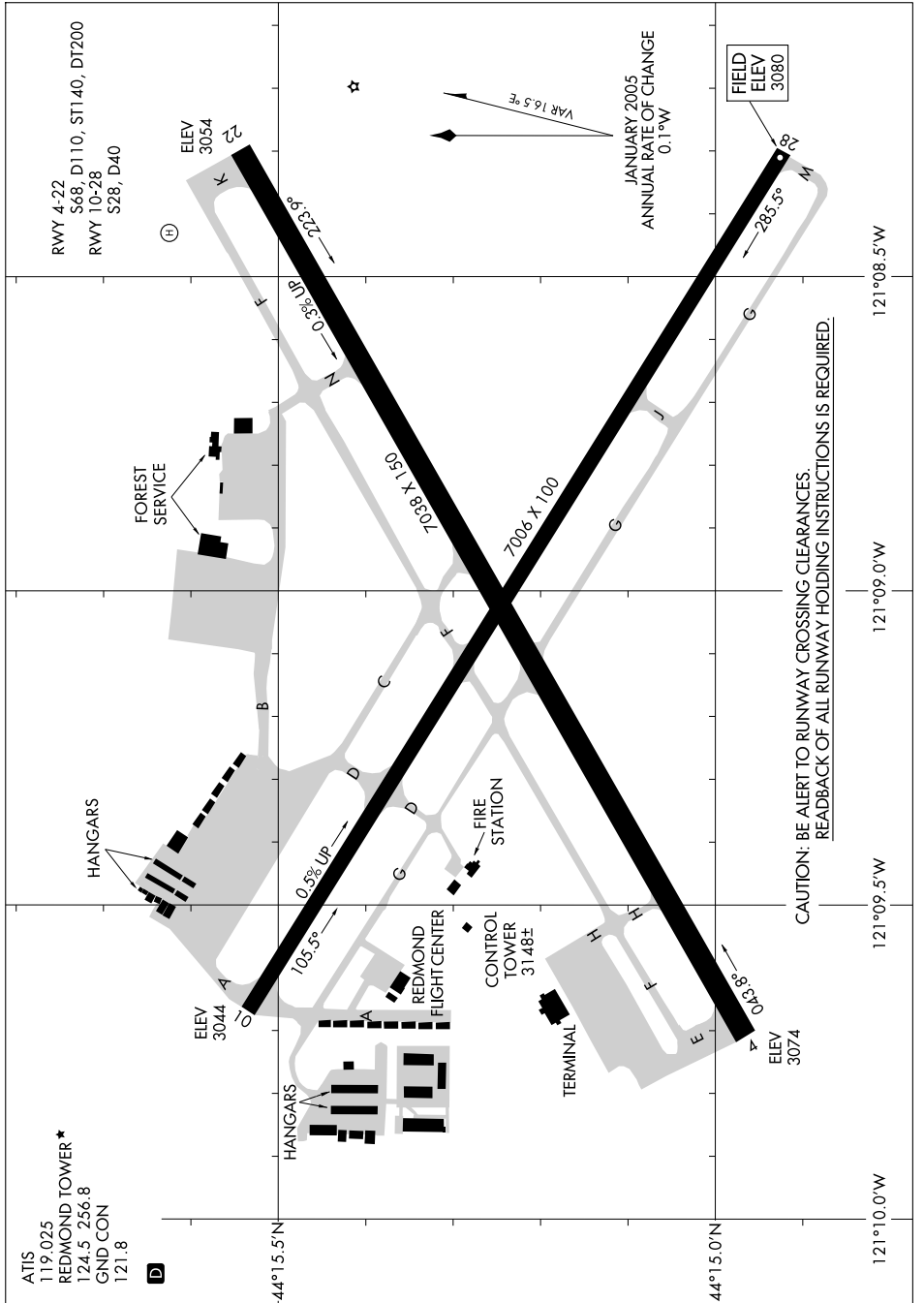


7000	DSD	VGSI and descent angles not coincident.			IKZIV
					
					Procedure Turn NA
CATEGORY	A	B	C	D	
LNAV MDA	3840-1	594 (600-1)	3840-1½ 594 (600-1½)	NA	
CIRCLING	4060-1 810 (900-1)	4100-1¼ 850 (900-1¼)	4100-2½ 850 (900-2½)	4100-2¾ 850 (900-2¾)	

AIRPORT DIAGRAM

AL-345 (FAA)

REDMOND/ ROBERTS FIELD (RDM)
REDMOND, OREGON



NW-1. 14 JAN 2010 to 11 FEB 2010

▼

▲

For inoperative MALS, increase S-ILS 22 Cat. E visibility to ¾.

For inoperative MALS, increase S-LOC 22 Cat. D and E visibility to 1. Autopilot coupled approach NA below 4370.

MALS

AS

⋮

MISSED APPROACH: Climb to 3500 then climbing right turn to 7000 via heading 315° and DSD VORTAC R-348 to CUPRI/DSD 22 DME and hold.

ATIS	SEATTLE CENTER	REDMOND TOWER★	GND CON	UNICOM
119.025	128.15 257.75	124.5 (CTAF) 256.8	121.8	122.95

MISSED APCH FIX

348°

168°

R-348

CUPRI

DSD 22

MSA RD 25 NM

180°

090°

270°

360°

7700

8200

8500

7300

DESCHUTES

117.6 DSD

Chan 123

6178

5560

Λ

5697

(IAF) FESOD

DSD 22

4101

3126±

3081±

LOCALIZER 109.1

I-RDM

LOM BODEY

411 RD

5108

5100

5148

5850

5930

5800

6040

6080

5720

Λ 5710

Λ 5335

Λ 4570

7800

DSD 22

Arc

7800

DSD 22

Arc

15 NM

IR-045

042°

IR-056

(IF) YUBUB

DSD 22

6300

222° (4.7)

7800

DSD 22

Arc

7800

DSD 22

Arc

7800

DSD 22

Arc

3500

7000

DSD

CUPRI

VGSI and ILS glidepath not coincident.

Procedure

↑

315°

R-348

117.6

LOM

HUTKI

DSD 17.3

YUBUB

DSD 22

Turn NA

DSD 7.1

5017

5100

6300

7800

GS 3.00°

TCH 47

5.9 NM

4.7 NM

4.7 NM

CATEGORY	A	B	C	D	E
S-ILS 22	3265-½ 200 (200-½)				
S-LOC 22	3340-½ 275 (300-½)		3340-¾ 275 (300-¾)		
CIRCLING	3520-1 440 (500-1)	3540-1 460 (500-1)	3540-1½ 460 (500-1½)	3780-2¼ 700 (700-2¼)	3780-2½ 700 (700-2½)

ELEV 3080

D

222° 5.9 NM from FAF

22

TDZE 3065

0.5% UP

0.3% UP

7038 X 150

7005 X 100

GS 3.00°

TCH 47

REIL Rwy 4, 10 and 28

HIRL Rwy 4-22

MIRL Rwy 10-28

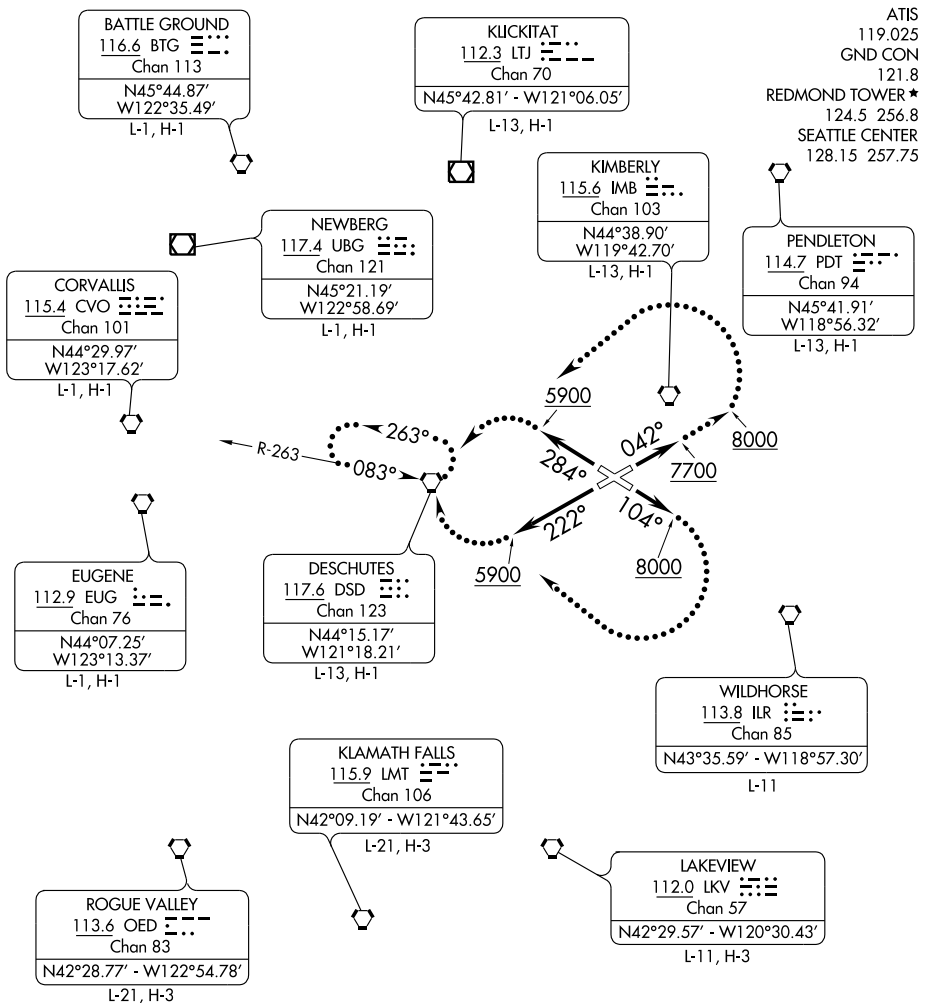
FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

NW-1. 14 JAN 2010 to 11 FEB 2010

REDMOND ONE DEPARTURE

REDMOND, OREGON

TAKE-OFF OBSTACLE

Rwy 28: Numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL.
Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

TAKE-OFF MINIMUMS

Rwy 4: Standard with minimum obstacle climb of 371' per NM to 13000, ATC climb of 465' per NM to 7700.
Rwy 10: Standard with minimum climb of 406' per NM to 13000.
Rwy 22: Standard with minimum obstacle climb of 356' per NM to 13000, ATC climb of 406' per NM to 5900.
Rwy 28: Standard with minimum climb of 358' per NM to 13000.

NOTE: RADAR required.

NOTE: Chart not to scale.

(NARRATIVE ON THE FOLLOWING PAGE)

REDMOND ONE DEPARTURE

REDMOND, OREGON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 4: Climb heading 042° or ATC assigned heading to 7700 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 10: Climb heading 104° or ATC assigned heading to 8000 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 22: Climb heading 222° or ATC assigned heading to 5900 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 28: Climb heading 284° or ATC assigned heading to 5900 for radar vectors to assigned route/fix, Thence. . . .

. . . . Maintain 14000 or assigned altitude, expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Center after reaching 6000, continue climb to assigned altitude and:

TAKE-OFF RUNWAY 4: Continue climb to 8000, then climbing left turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 10: Climbing right turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 22: Climbing right turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 28: Climbing left turn direct DSD VORTAC. . . .

. . . . Climb-in-hold at DSD VORTAC (hold W, LT, 083° inbound) to cross DSD VORTAC at or above the MEA before proceeding on course.

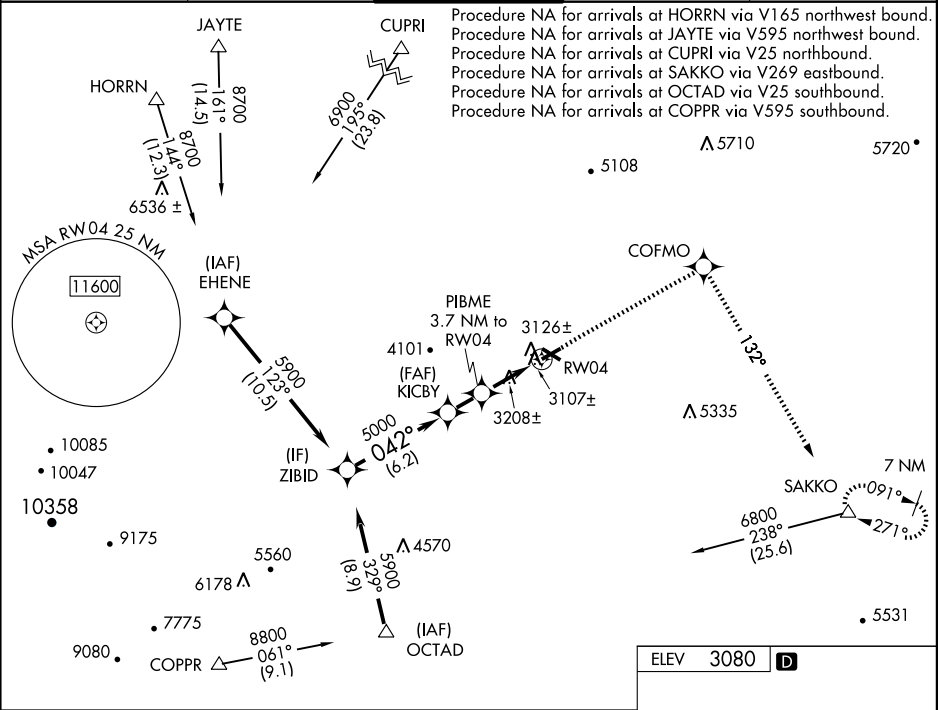
WAAS CH 70514 W04A	APP CRS 042°	Rwy Idg TDZE Apt Elev	7038 3075 3080
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RNAV (GPS) RWY 4
REDMOND/ROBERTS FIELD (RDM)

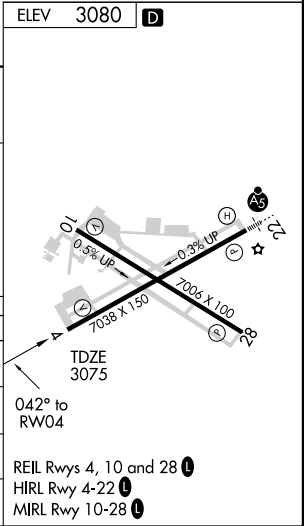
▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 43°C (109°F). DME/DME RNP -0.3 NA. When local altimeter setting not received procedure NA.

MISSED APPROACH: Climb to 9500 direct COFMO and via track 132° to SAKKO and hold, continue climb-in-hold to 9500.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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Procedure Turn NA		ZIBID	KICBY		PIBME 3.7 NM to RW04	9500 ↑	COFMO ✧	132° trk	SAKKO △
5900		042°		5000		*LNAV only.			
GS 3.00° TCH 50		4300		*1.2 NM to RW04		RW04			
6.2 NM		2.1 NM		2.5 NM		1.2 NM			
CATEGORY	A	B	C	D					
LPV DA	3325-¾		250 (300-¾)						
LNAV/VNAV DA	3367-1		292 (300-1)						
LNAV MDA	3520-1	445 (500-1)		3520-1½ 445 (500-1½)	3520-1½ 445 (500-1½)		3520-1½ 445 (500-1½)		
CIRCLING	3520-1 440 (500-1)	3540-1 460 (500-1)	3540-1½ 460 (500-1½)	3640-2 560 (600-1)					



WAAS CH 53514 W10A	APP CRS 104°	Rwy Idg TDZE Apt Elev 7006 3067 3080
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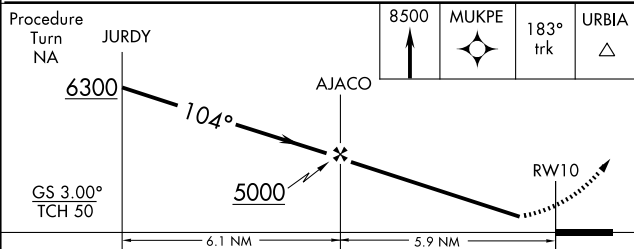
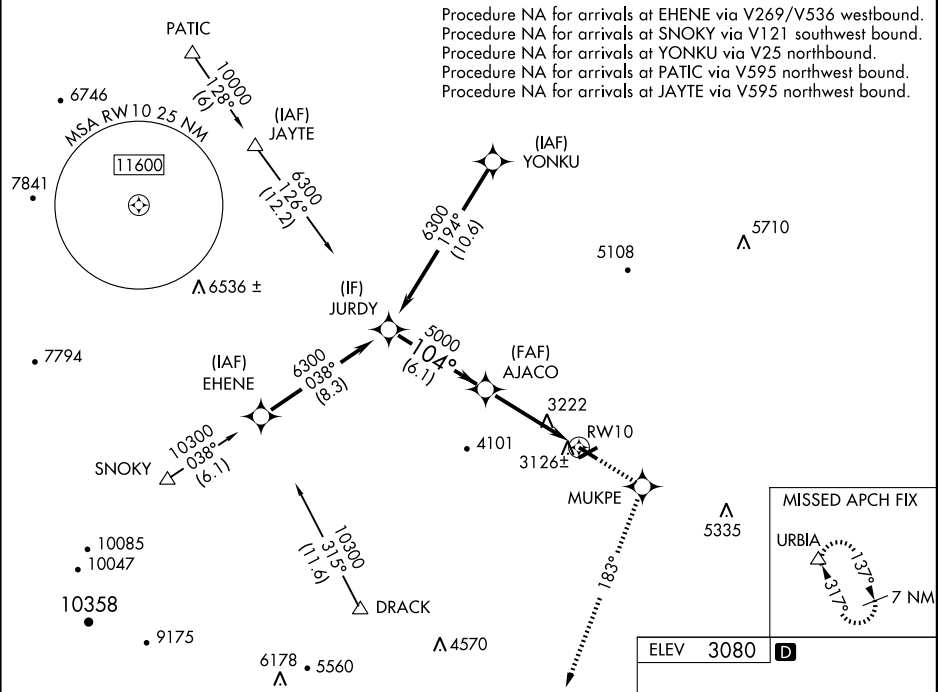
RNAV (GPS) RWY 10

REDMOND/ROBERTS FIELD (RDM)

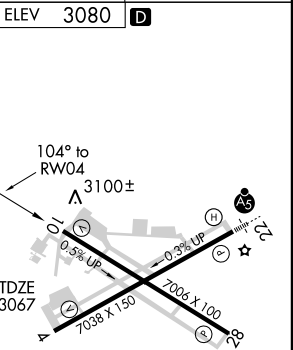
⚠ DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below
-21°C (-5°F) or above 43°C (109°F). When local altimeter setting
not received, procedure NA.

MISSED APPROACH: Climb to 8500 direct
MUKPE and via track 183° to URBIA and
hold, continue climb-in-hold to 8500.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	3317-1		250 (300-1)	
LNAV/VNAV DA	3370-1		303 (300-1)	
LNAV MDA	3480-1 413 (400-1)		3480-1¼ 413 (400-1¼)	
CIRCLING	3480-1 400 (400-1)	3540-1 460 (500-1)	3540-1½ 460 (500-1½)	3640-2 560 (600-1)



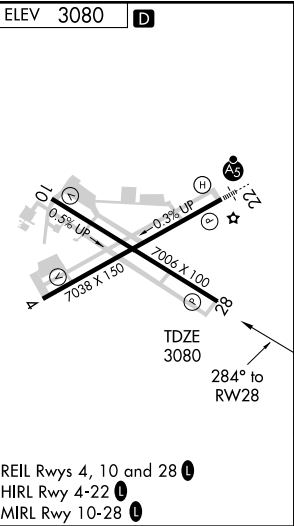
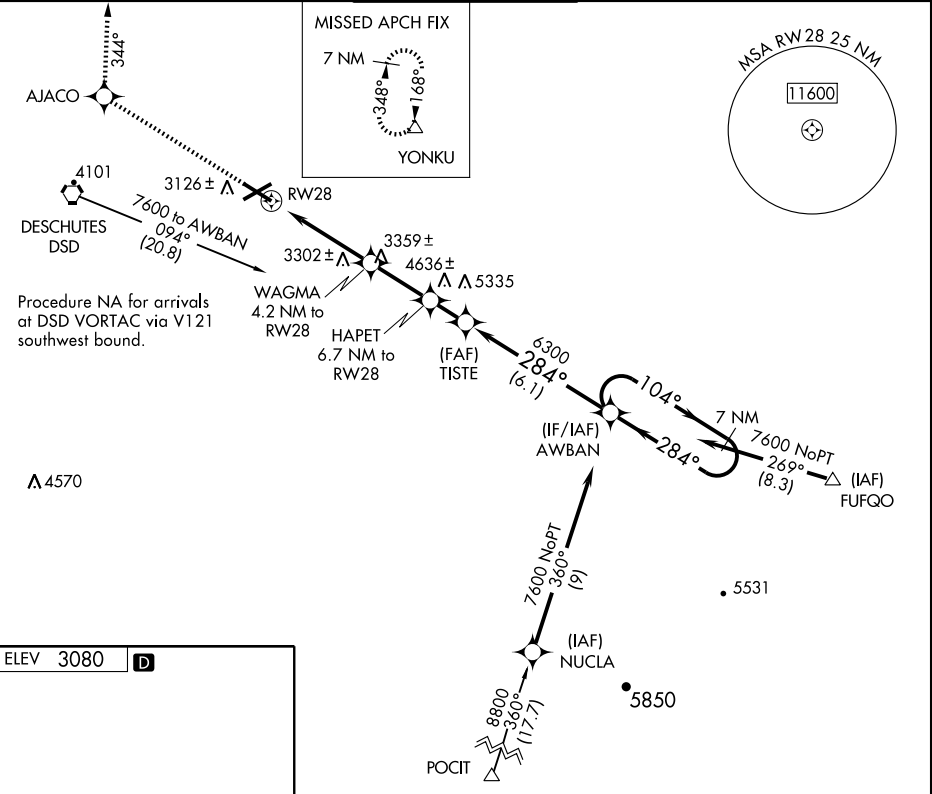
REIL Rwy 4, 10 and 28
HIRL Rwy 4-22
MIRL Rwy 10-28

APP CRS	Rwy Idg	7006
284°	TDZE	3080
	Apt Elev	3080

RNAV (GPS) Y RWY 28

REDMOND/ROBERTS FIELD (RDM)

▼ DME/DME RNP -0.3 NA. When local altimeter setting not received, procedure NA.		MISSED APPROACH: Climb to 7000 direct AJACO and via track 344° to YONKU and hold, continue climb-in-hold to 7000.		
ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 256.8	GND CON 121.8	UNICOM 122.95



7000		AJACO	trk 344°	YONKU	HAPET 6.7 NM to RW28	TISTE	AWBAN	7 NM Holding Pattern
					WAGMA 4.2 NM to RW28			
					1.4 NM to RW28			
						3.64° TCH 50		
						5720		
						6300		
								104° → 7600
								← 284°
								VGSI and descent angles not coincident.
CATEGORY		A		B		C		D
LNAV MDA		3560-1		480 (500-1)		3560-1¼ 480 (500-1¼)		NA
CIRCLING		3560-1		480 (500-1)		3560-1½ 480 (500-1½)		NA

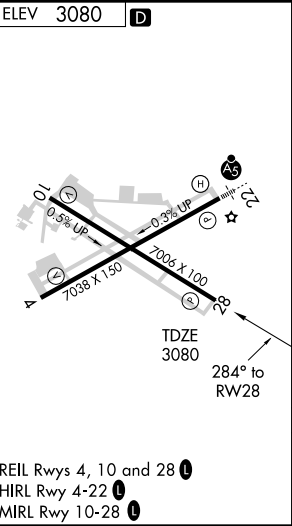
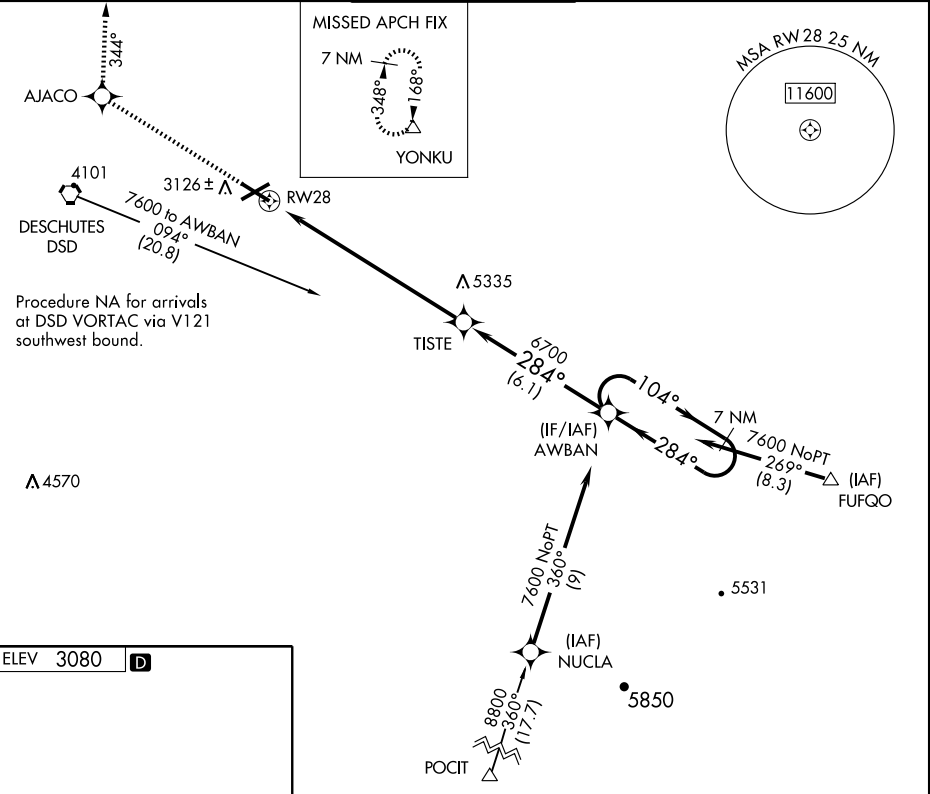
WAAS CH 90214 W28A	APP CRS 284°	Rwy Idg TDZE Apt Elev 7006 3080 3080
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RNAV (GPS) Z RWY 28

REDMOND/ROBERTS FIELD (RDM)

▼ DME/DME RNP -0.3 NA. When local altimeter setting not received, procedure NA. Circling requires descent on glidepath to MDA.	MISSED APPROACH: Climb to 7000 direct AJACO and via track 344° to YONKU and hold, continue climb-in-hold to 7000.
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ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 256.8	GND CON 121.8	UNICOM 122.95
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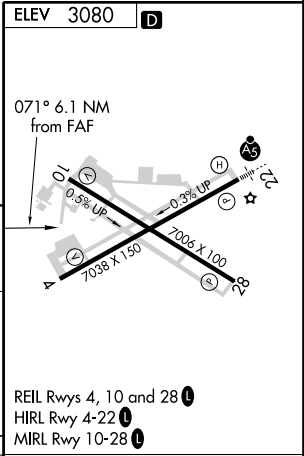
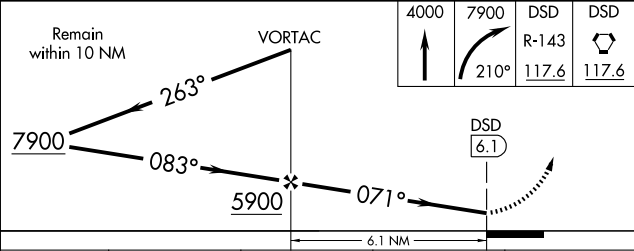
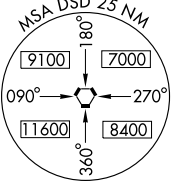
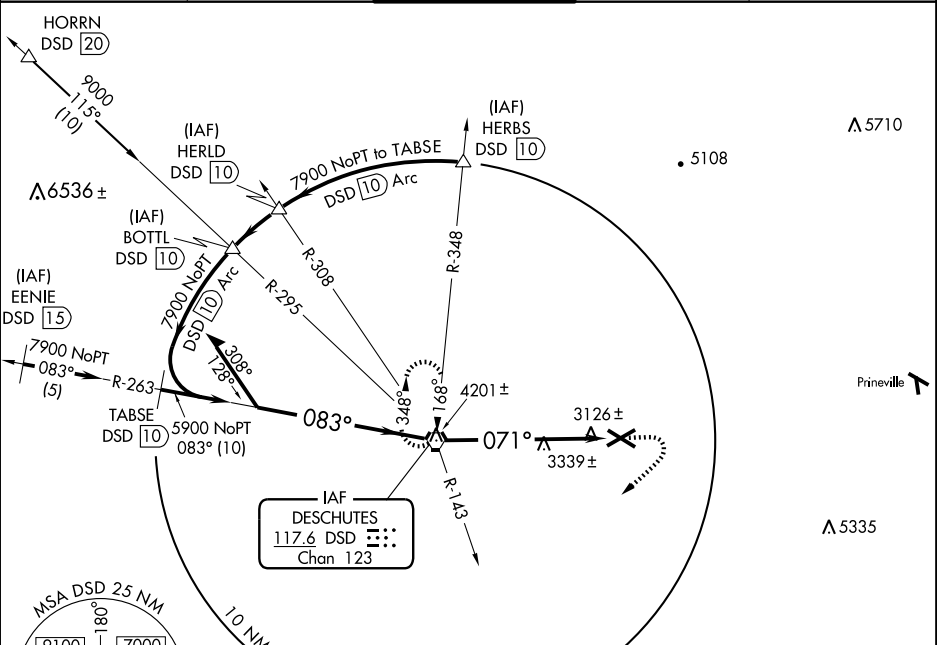


7000 ↑	AJACO ✧	344° trk	YONKU ✧	TISTE 6700 AWBAN 7 NM Holding Pattern 104° → 7600 ← 284° 284° 6700 GS 4.03° TCH 50 8.2 NM 6.1 NM RW28 VGSI and RNAV glidepath not coincident.		
CATEGORY	A		B		C	D
LPV DA	3366- ³ / ₄ 286 (300- ³ / ₄)		3366-1 286 (300-1)		NA	
CIRCLING	3480-1 400 (400-1)		3540-1 460 (500-1)		NA	

VORTAC DSD 117.6 Chan 123	APP CRS 071°	Rwy Idg TDZE Apt Elev 3080	N/A N/A
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MISSED APPROACH: Climb to 4000 then climbing right turn to 7900 via heading 210° and DSD R-143 to DSD VORTAC and hold.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D	FAF to MAP 6.1 NM					
CIRCLING	3600-1	520 (600-1)	3600-1½ 520 (600-1½)	3640-2 560 (600-2)	Knots	60	90	120	150	180
					Min:Sec	6:06	4:04	3:03	2:26	2:02

VORTAC DSD 117.6 Chan 123	APP CRS 249°	Rwy Idg TDZE Apt Elev 7038 3065 3080
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VOR/DME RWY 22

REDMOND/ROBERTS FIELD (RDM)



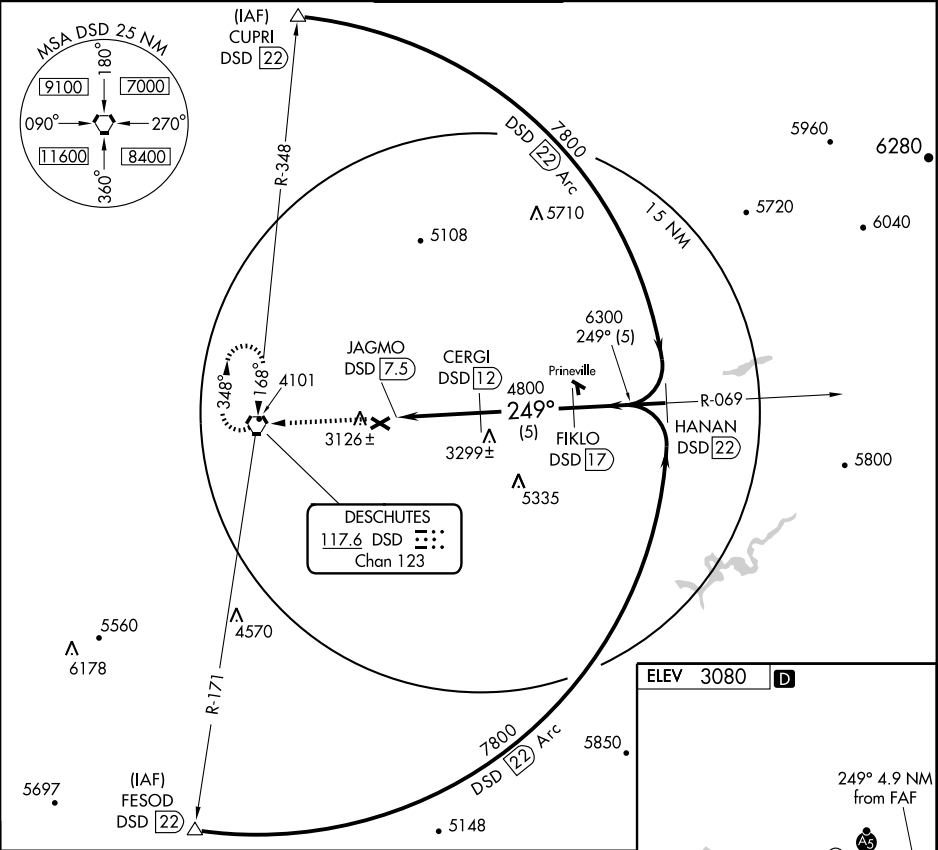
Inoperative table does not apply.



MALSR

MISSED APPROACH: Climb to 7000 direct DSD VORTAC and hold.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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7000	DSD 117.6	CERGI DSD 12	FIKLO DSD 17	HANAN DSD 22	
↑		DSD 9.7			
JAGMO DSD 7.5	≤ 3.28° TCH 55	4800	6300	7800	
	0.4	2.2 NM	2.3 NM	5 NM	
			5 NM		
				Procedure Turn NA	
CATEGORY	A	B	C	D	E
S-22	4000-1¼ 935 (1000-1¼)		4000-2¾ 935 (1000-2¾)	4000-3 935 (1000-3)	
CIRCLING	4000-1¼ 920 (1000-1¼)		4000-2¾ 920 (1000-2¾)	4000-3 920 (1000-3)	

ELEV 3080 **D**

249° 4.9 NM from FAF

0.5% Up 0.3% Up

7038 X 150 7006 X 100

TDZE 3065

REIL Rwy 4, 10 and 28

HIRL Rwy 4-22

MIRL Rwy 10-28

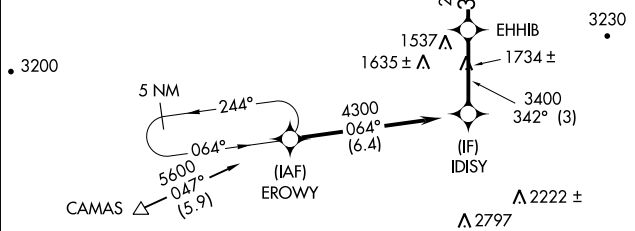
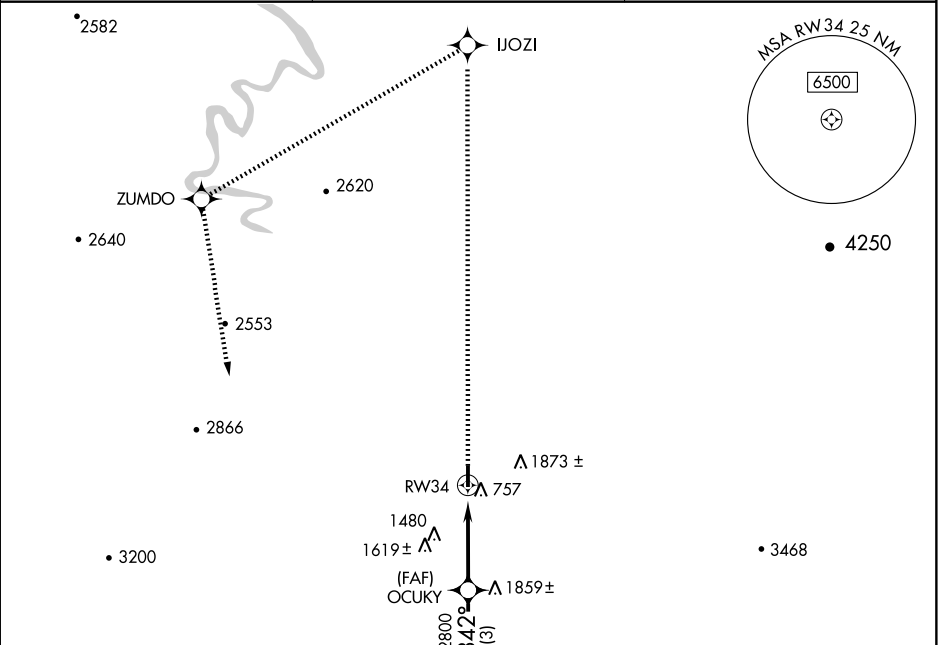
RNAV (GPS)-B
ROSEBURG RGNL (RBG)

APP CRS 342°	Rwy Idg TDZE Apt Elev	N/A N/A 529
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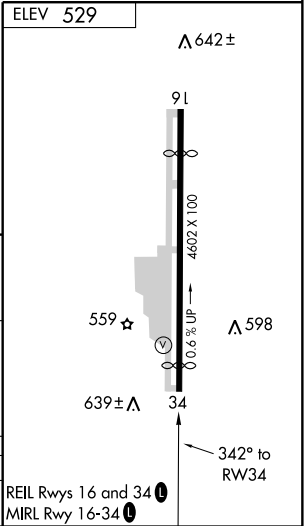
⚠ Circling NA east of Rwy 16-34.
⚠ If local altimeter setting not received, use North Bend
altimeter setting and increase all MDAs 520 feet.
DME/DME RNP -0.3 NA.

MISSED APPROACH: Climb to 5600 direct IJOZI and
left turn via 222° track to ZUMDO and via 153° track
to EROWY and hold.

ASOS 135.475	SEATTLE CENTER 121.4 239.0	UNICOM 122.8 (CTAF) 0
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VGSI and descent angles not coincident			
CATEGORY	A	B	C
CIRCLING	1700-1¼ 1171 (1200-1¼)	1700-1½ 1171 (1200-1½)	1700-3 1171 (1200-3)



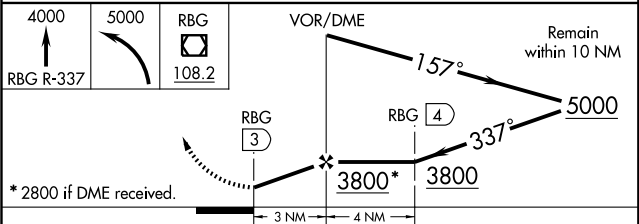
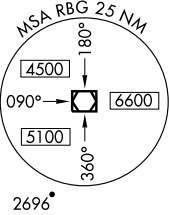
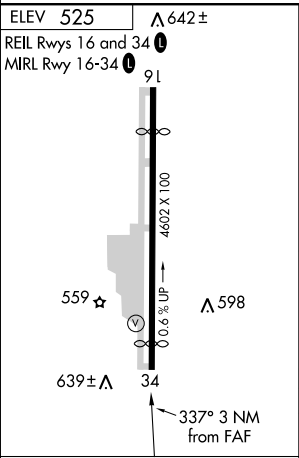
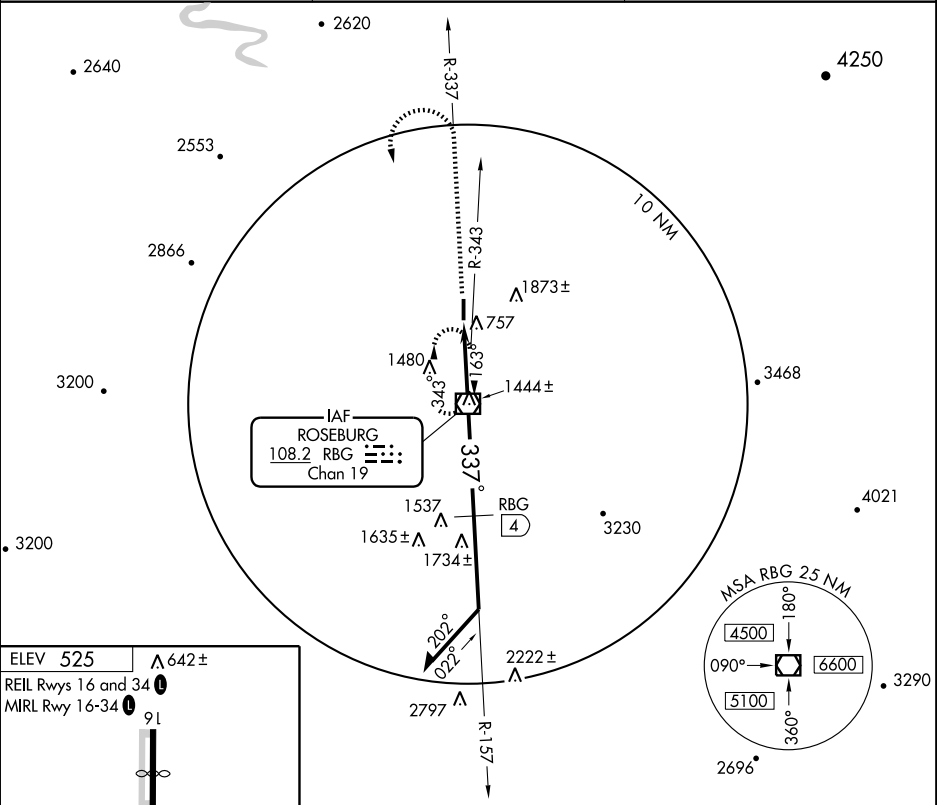
VOR/DME RBG 108.2 Chan 19	APP CRS 337°	Rwy Idg TDZE Apt Elev	N/A N/A 525
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VOR-A
ROSEBURG RGNL (RBG)

NA Circling not authorized east of Rwy 16-34.

MISSED APPROACH: Climb to 4000 via RBG R-337 within 1.5 NM; then climbing left turn to 5000 direct RBG VOR/DME and hold.

ASOS 135.475	SEATTLE CENTER 121.4 239.0	UNICOM 122.8 (CTAF)
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FAF to MAP 3 NM					
Knots	60	90	120	150	180
Min:Sec	3:00	2:00	1:30	1:12	1:00
CIRCLING					
DME MINIMUMS					
CIRCLING					
2600-1¼ 2075 (2100-1¼)		2600-1½ 2075 (2100-1½)		2600-3 2075 (2100-3)	
1740-1¼ 1215 (1300-1¼)		1740-1½ 1215 (1300-1½)		1740-3 1215 (1300-3)	
				1920-3 1395 (1400-3)	

AIRPORT DIAGRAM

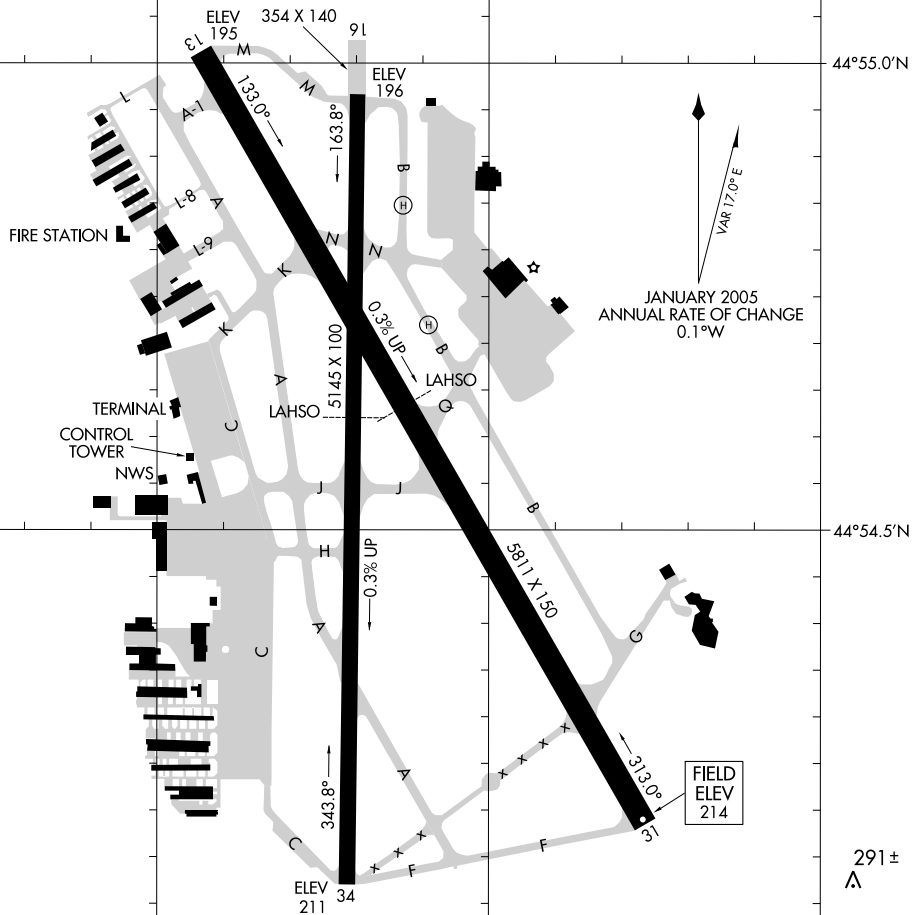
AL-361 (FAA)

SALEM/MCENARY FIELD (SLE)

SALEM, OREGON

ATIS 124.55
SALEM TOWER ★
119.1 257.2
GND CON
121.9

RWY 13-31
S100, D122, ST154, DT185
RWY 16-34
S30, D60, DT100



JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBCK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

123°00.5'W

123°00.0'W

122°59.5'W

ILS or LOC RWY 31
SALEM / MCNARY FIELD (SLE)

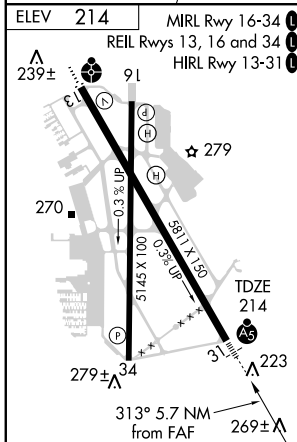
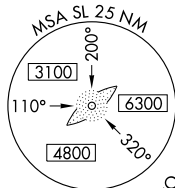
MISSED APPROACH: Climb to 4000 via I-SLE NW course to ARTTY FM/INT/I-SLE 5.6 DME and hold, continue climb-in-hold to 4000.

ALTERNATE MISSED
APCH FIX

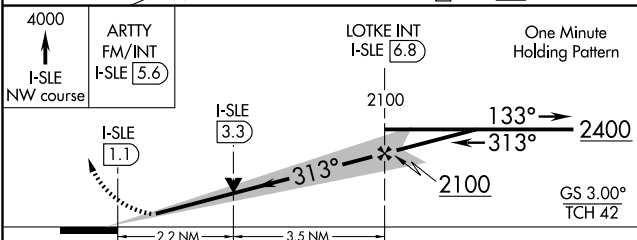
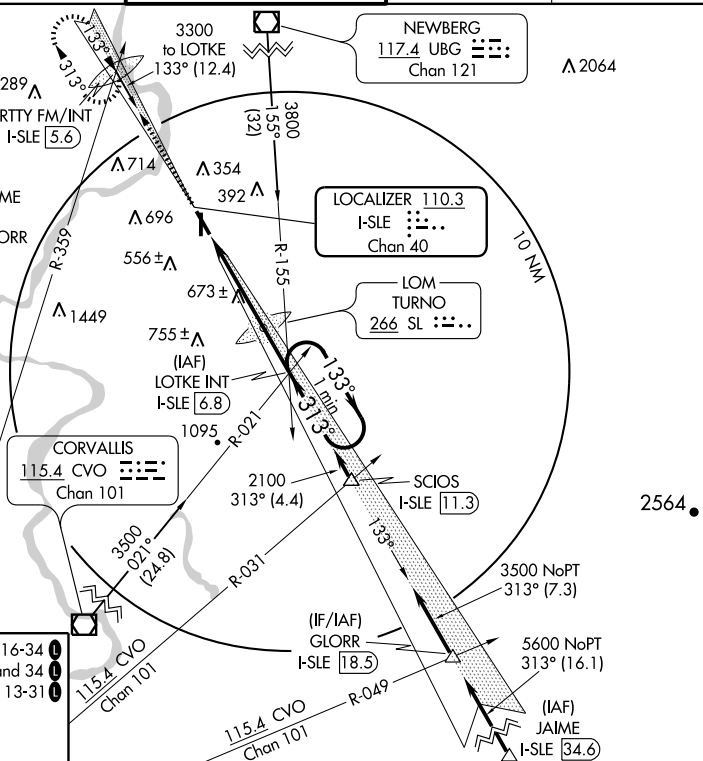
TURN
SL: : : :
266

313°
313°
133°

Procedure NA for arrivals at JAIME
via V536 eastbound.
Procedure NA for arrivals at GLORR
via V448 southbound.



FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54



CATEGORY	A	B	C	D
S-ILS 31	*414/24 200 (200-½)			
S-LOC 31	960/24 746 (800-½)	960/40 746 (800-¾)	960-1¾ 746 (800-1¾)	960-2 746 (800-2)
CIRCLING	960-1 746 (800-1)	960-1¼ 746 (800-1¼)	960-2¼ 746 (800-2¼)	1000-2½ 786 (800-2½)

*860 when using Mc Minnville altimeter setting.
VGSJ and descent angles not coincident.

Remain within 10 NM

ARTY FM/INT I-SLE 5.6

JUVRO I-SLE 1.7

WIPIR I-SLE 0.6

3000

2200

800

313°

133°

3.20° TCH 51

3.9 NM

1.1 NM

0.8

Disregard glide slope indications.

CATEGORY	A	B	C	D
S-13	800-¾ 596 (600-¾)		800-1½ 596 (600-1½)	800-1¾ 596 (600-1¾)
CIRCLING	900-1 686 (700-1)	940-1 726 (800-1)	940-2 726 (800-2)	1000-2½ 786 (800-2½)

JUVRO FIX MINIMUMS

S-13	600-¾ 396 (400-¾)	600-1¼ 396 (400-1¼)
CIRCLING	900-1 686 (700-1)	940-1 726 (800-1) 940-2 726 (800-2) 1000-2½ 786 (800-2½)

LOTKE INT I-SLE 6.8

I-SLE SE course

2400

ELEV 214

TDZE 204

133° 5.8 NM from FAF

279±

270

279±

34

REIL Rwy 13, 16 and 34

HIRL Rwy 13-31

MIRL Rwy 16-34

FAF to MAP 5 NM

Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

WAAS CH 86202 W31A	APP CRS 313°	Rwy Idg TDZE Apt Elev	5811 214 214
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RNAV (GPS) RWY 31

SALEM / MCNARY FIELD (SLE)

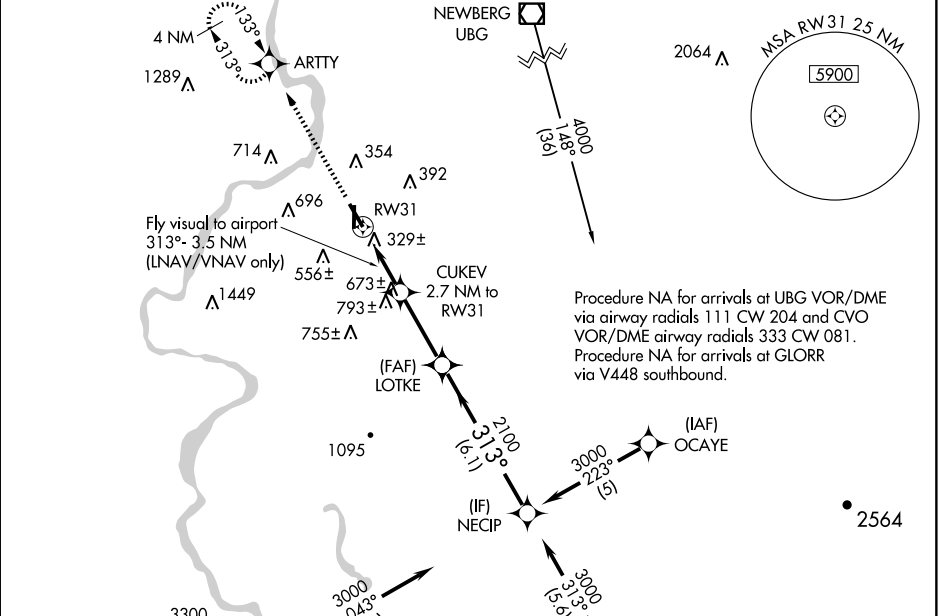
⚠ Inoperative table does not apply to LNAV/VNAV. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use McMinnville altimeter setting and increase all DA 49 feet; increase all MDA 60 feet and LNAV and circling visibility Cats B/C/D ¼ mile. Baro-VNAV and VDP NA when using McMinnville altimeter setting.

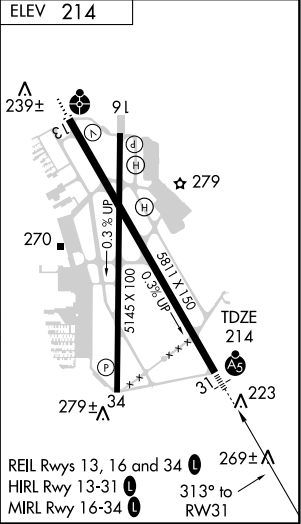
MALSR



MISSED APPROACH:
Climb to 3700 direct ARTTY and hold, continue climb-in-hold to 3700.

ATIS 124.55	SEATTLE CENTER 125.8 291.7	SALEM TOWER ★ 119.1(CTAF) 0 257.2	GND CON 121.9	UNICOM 122.95
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	ELEV 214	
		
3700	ARTTY	* LNAV only
Fly visual to airport 313°-3.5 NM (LNAV/VNAV only)		
RW31		
CUKEV 2.7 NM to RW31		
LOTKE 2100		
NECIP		
3000		Procedure Turn NA
2100		GS 3.00°
1120*		TCH 42
2.2 NM		0.5
3 NM		6.1 NM
CATEGORY	A	B
LPV DA	414/24 200 (200-½)	
LNAV/VNAV DA	1334-2	1120 (1200-2)
LNAV MDA	940/24	726 (800-½)
CIRCLING	940-1	726 (800-1)

SALEM TWO DEPARTURE

SL-361 (FAA)

SALEM / MCNARY (SLE)
SALEM, OREGON

GND CON

121.9

SALEM TOWER ★

119.1 (CTAF) 257.2

SEATTLE CENTER

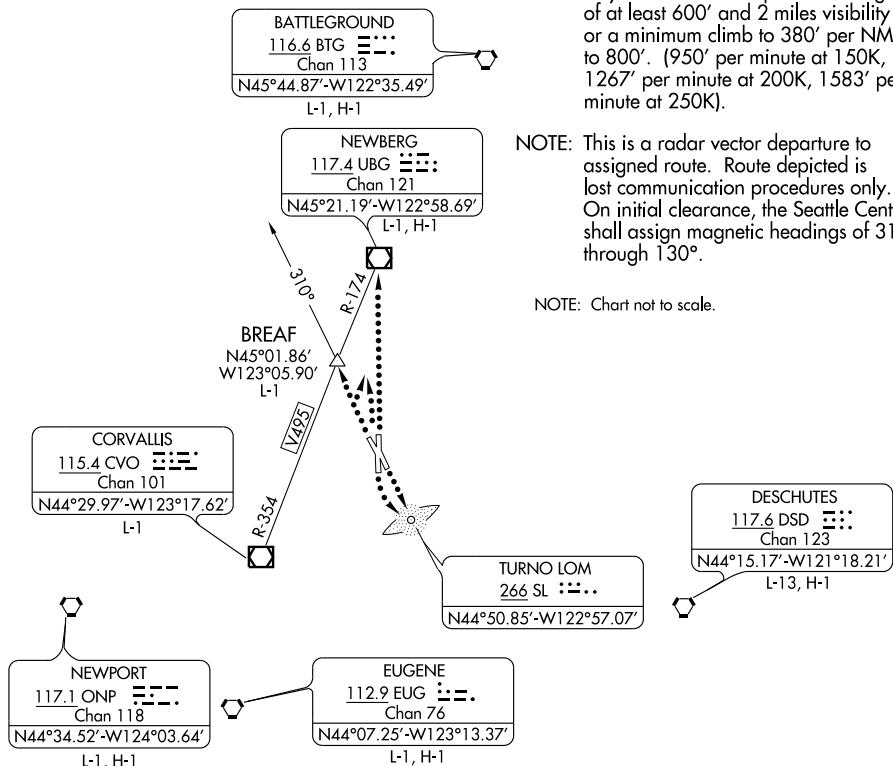
125.8 291.7

NOTE: Rwy 13-This SID requires a ceiling of at least 600' and 2 miles visibility, or a minimum climb of 240' per NM to 800'. (600' per minute at 150K, 800' per minute at 200K, 1000' per minute at 250K).

NOTE: Rwy 16 - This SID requires a ceiling of at least 600' and 2 miles visibility or a minimum climb to 380' per NM to 800'. (950' per minute at 150K, 1267' per minute at 200K, 1583' per minute at 250K).

NOTE: This is a radar vector departure to assigned route. Route depicted is lost communication procedures only. On initial clearance, the Seattle Center shall assign magnetic headings of 310° through 130°.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

Climb via specified turn and heading, contact Seattle Center for vectors to assigned route.

LOST COMMUNICATIONS: If not in contact with Seattle Center after reaching 2000', continue climb to assigned altitude.

Take-off runways 13 and 16: (Rwy 16 turn left) proceed direct to SL LOM thence via (assigned route).

Take-off runways 31 and 34: (Rwy 31 right turn) proceed direct to UBG VOR/DME thence via (assigned route).

Helicopter only-runways 31 and 34: (Rwy 34 turn left) intercept and proceed outbound on the SL LOM 310° bearing to BREAF INT, thence via (assigned route).

LOC/DME I-FKO <u>111.1</u> Chan 48	APP CRS 149°	Rwy Idg 5100 TDZE 55 Apt Elev 55
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LOC/DME RWY 15
SCAPPOOSE INDUSTRIAL AIRPARK (SPB)

T Circling not authorized west of Rwy 15-33.

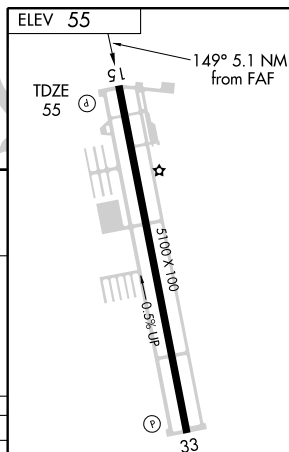
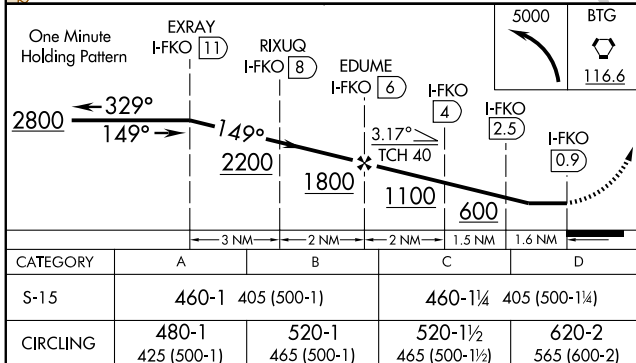
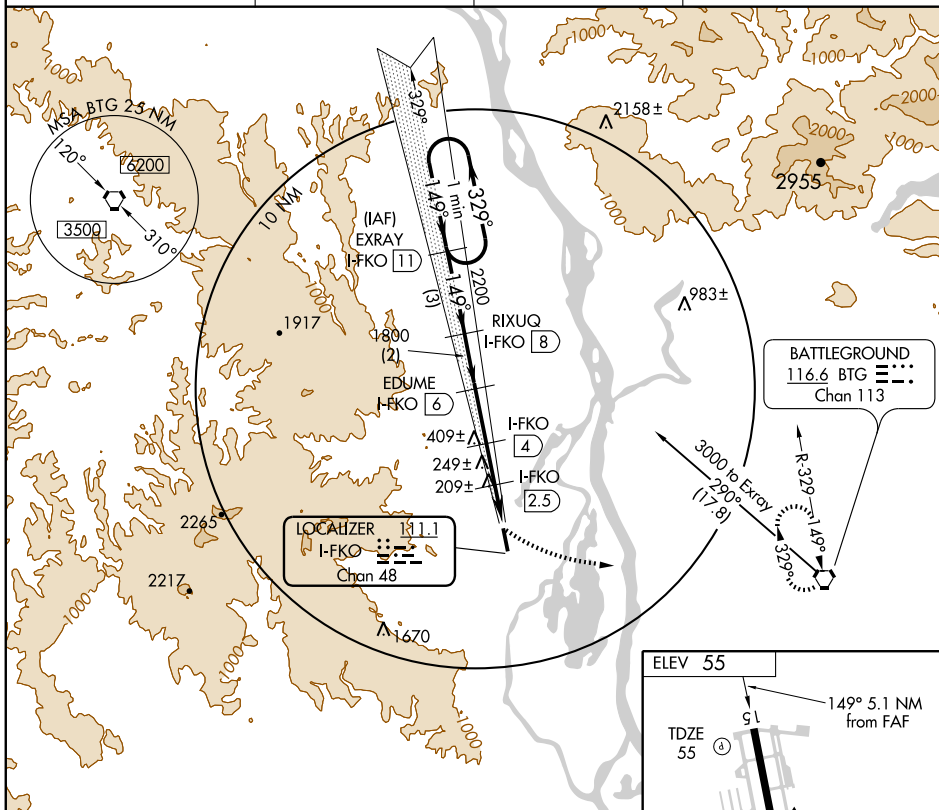
MISSED APPROACH: Climbing left turn to 5000 direct BTG VORTAC and hold.

ASOS
135,875

PORTLAND APP CON
124.35 299.2

CLNC DE
121,65

UNICOM
122.8 (CTAF)



REIL Rwy 15
MIRL Rwy 15-33

VORTAC BTG <u>116.6</u> Chan 113	APP CRS 256°	Rwy Idg TDZE Apt Elev	N/A N/A 55
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VOR/DME or GPS-A
SCAPPOOSE INDUSTRIAL AIRPARK (SPB)

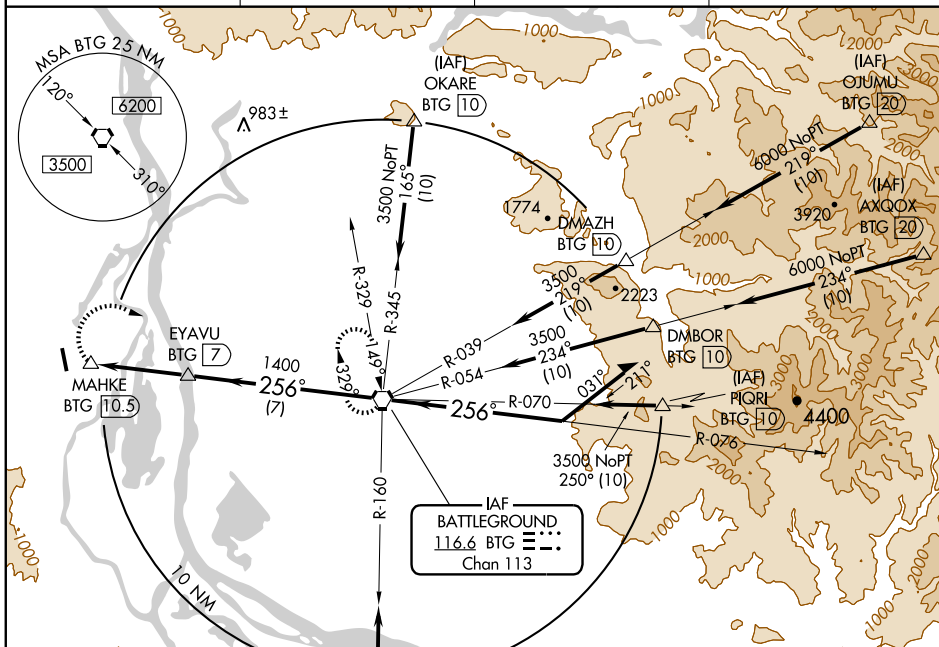
MISSED APPROACH: Climbing right turn to 4200 direct BTG VORTAC and hold.

ASOS
135.875

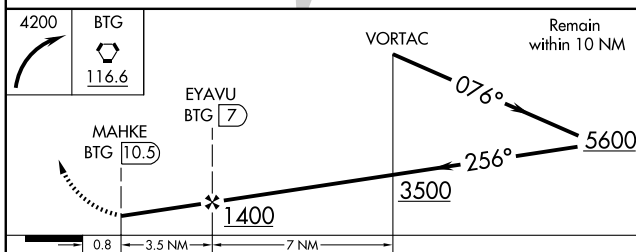
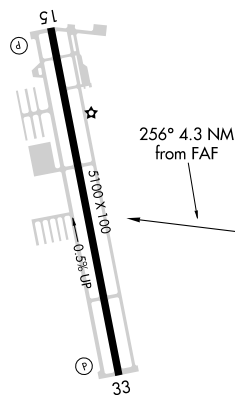
PORTLAND APP CON
124.35 299.2

CLNC DEL
121,65

UNICOM
122.8 (CTAF)



ELEV 55



CATEGORY	A	B	C	D
CIRCLING	680-1 625 (700-1)	940-1¼ 885 (900-1¼)	1000-2¾ 945 (1000-2¾)	1260-3 1205 (1300-3)

REIL Rwy 15
MIRL Rwy 15-33

APP CRS

178°

Rwy Idg

4467

TDZE

4162

Apt Elev

4164

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

Circling not authorized at night to Rwy 36.

Obtain local altimeter setting on CTAF; when not received, use Redmond altimeter setting.

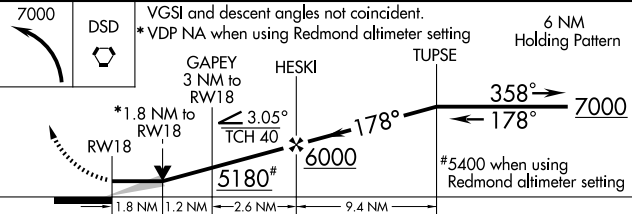
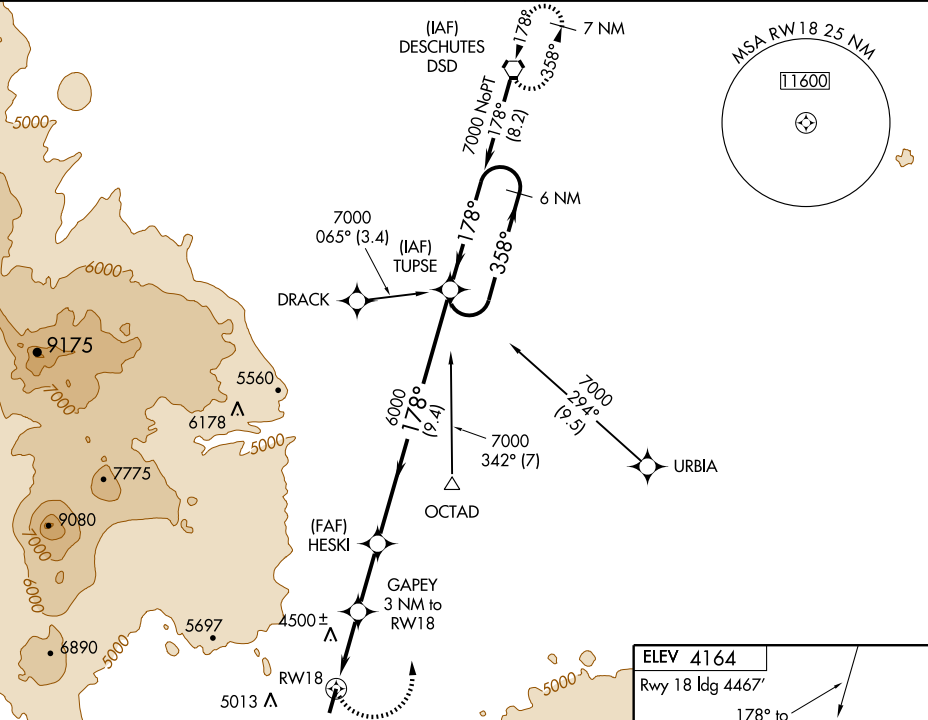
MISSED APPROACH: Climbing left turn to 7000 direct DSD VORTAC and hold.

SEATTLE CENTER

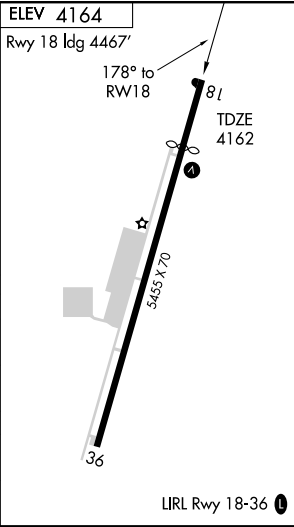
128.15 257.75

UNICOM

122.8 (CTAF) 0



CATEGORY	A	B	C	D
RNAV MDA	4760-1	598 (600-1)	4760-1½ 598 (600-1½)	4960-2½ 798 (800-2½)
CIRCLING	4920-1 756 (800-1)	4920-1¼ 756 (800-1¼)	5040-2½ 876 (900-2½)	5380-3 1216 (1300-3)
REDMOND ALTIMETER SETTING MINIMUMS				
RNAV MDA	4980-1 818 (900-1)	4980-1¼ 818 (900-1¼)	4980-2½ 818 (900-2½)	4980-2¾ 818 (900-2¾)
CIRCLING	5140-1¼ 976 (1000-1¼)	5140-1½ 976 (1000-1½)	5260-3 1096 (1100-3)	5580-3 1366 (1400-3)



Obtain local altimeter setting on CTAF; when not received, use Redmond altimeter setting.

Circling NA at night to Rwy 36.

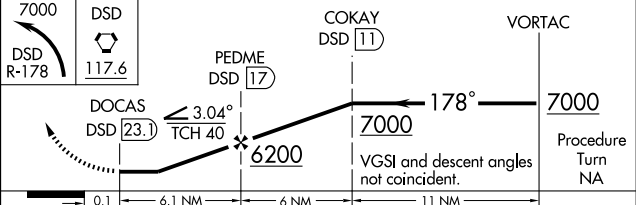
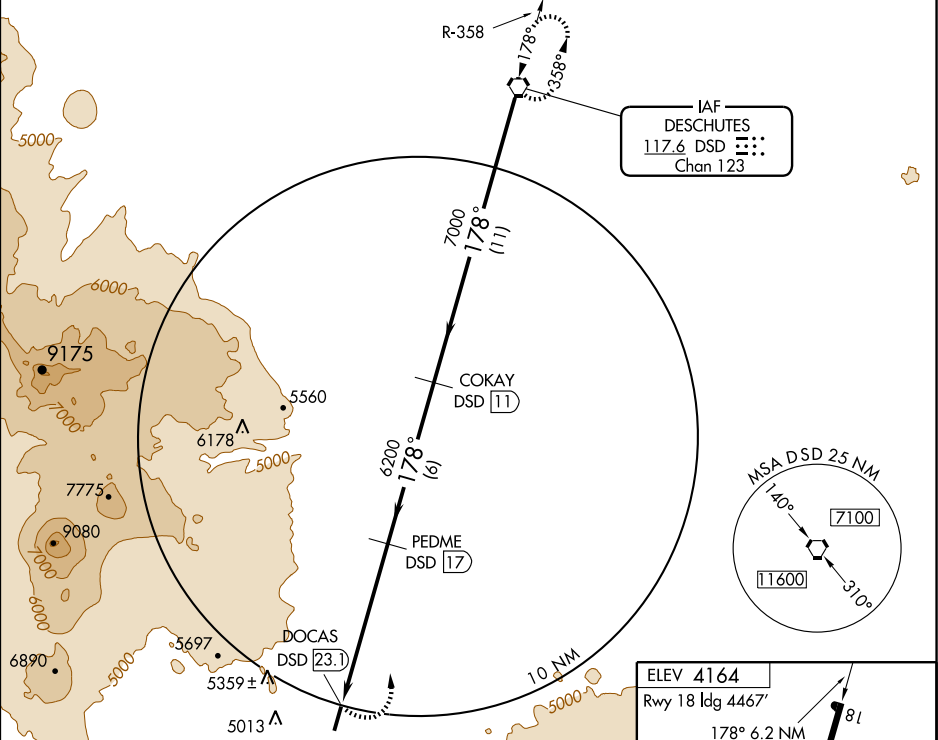
MISSED APPROACH: Climbing left turn to 7000 via DSD R-178 to DSD VORTAC and hold.

SEATTLE CENTER

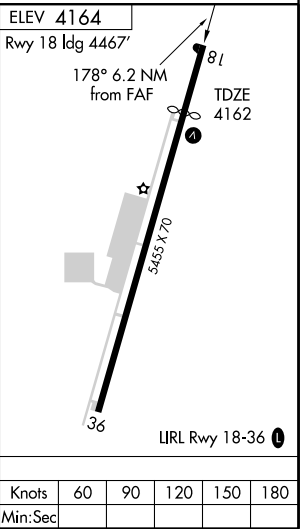
128.15 257.75

UNICOM

122.8 (CTAF) 1



CATEGORY	A	B	C	D
S-18	5440-1¼ 1278 (1300-1¼)	5440-1½ 1278 (1300-1½)	5440-3	1278 (1300-3)
CIRCLING	5440-1¼ 1276 (1300-1¼)	5440-1½ 1276 (1300-1½)	5440-3	1276 (1300-3)
REDMOND ALTIMETER SETTING MINIMUMS				
S-18	5660-1¼ 1498 (1500-1¼)	5660-1½ 1498 (1500-1½)	5660-3	1498 (1500-3)
CIRCLING	5660-1¼ 1496 (1500-1¼)	5660-1½ 1496 (1500-1½)	5660-3	1496 (1500-3)



LOC/DME I-DLS 109.35 Chan 30(Y)	APP CRS 234°	Rwy Idg TDZE Apt Elev	4451 243 247
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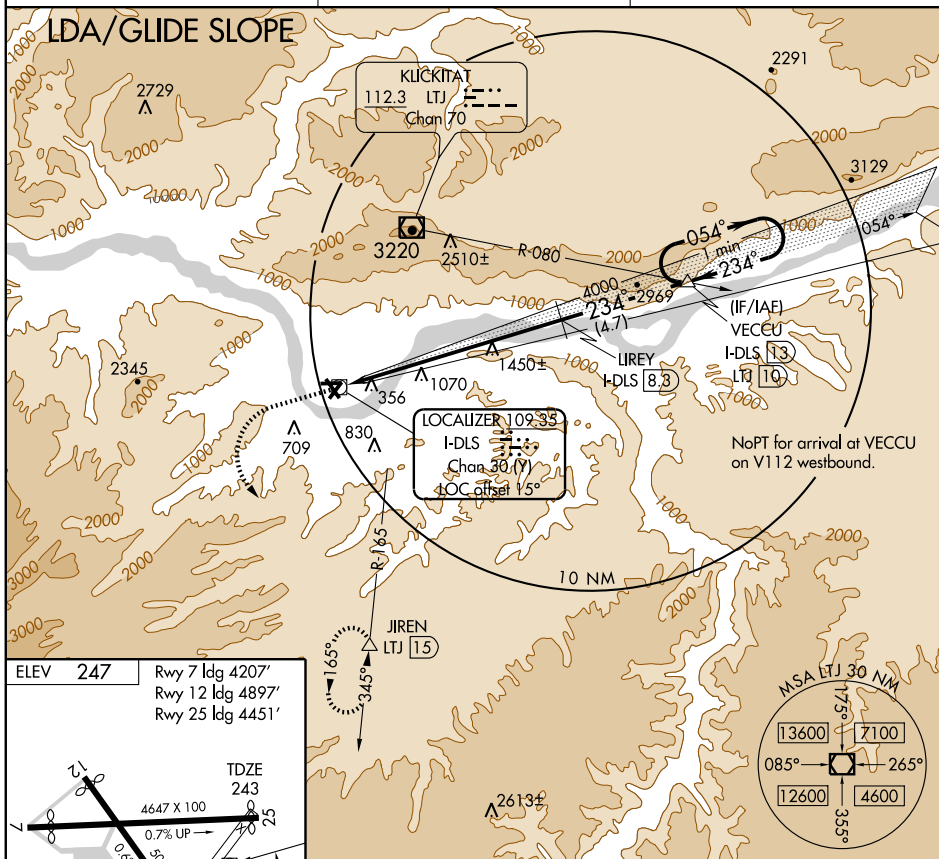
COPTER LDA/DME RWY 25

THE DALLES/COLUMBIA GORGE RGNI/LTHE DALLES MUNI (DLS)

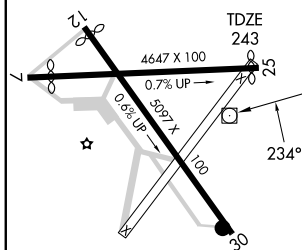
▼ Glide slope provided by standard glide slope equipment.
▲ NA If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 1200 then climbing left turn to 7000 via heading 125° and LTJ VOR/DME R-165 to JIREN/LTJ 15 DME and hold, continue climb-in-hold to 7000.

ASOS 135.175	SEATTLE CENTER 119.65 257.6	UNICOM 123.0 (CTAF) 0
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ELEV 247	Rwy 7 Idg 4207'
	Rwy 12 Idg 4897'
	Rwy 25 Idg 4451'



REIL Rwy 30 0
MIRL Rwy 7-25 and 12-30 0

Knots	60	90	120	150	180
Min:Sec					

1200	7000	LTJ R-165 112.3	JIREN △	Use I-DLS DME when on the localizer course.
↑	125°			
		LIREY I-DLS 8.3	VECCU I-DLS 13	One Minute Holding Pattern
				5300
				GS 4.20° TCH 43
		8.2 NM	4.7 NM	
CATEGORY	COPTER	B	C	D
H-LDA/GS 25	783-1½ 540 (600-1½)		NA	

LOC/DME I-DLS 109.35 Chan 30(Y)	APP CRS 234°	Rwy Idg TDZE Apt Elev	4451 243 247
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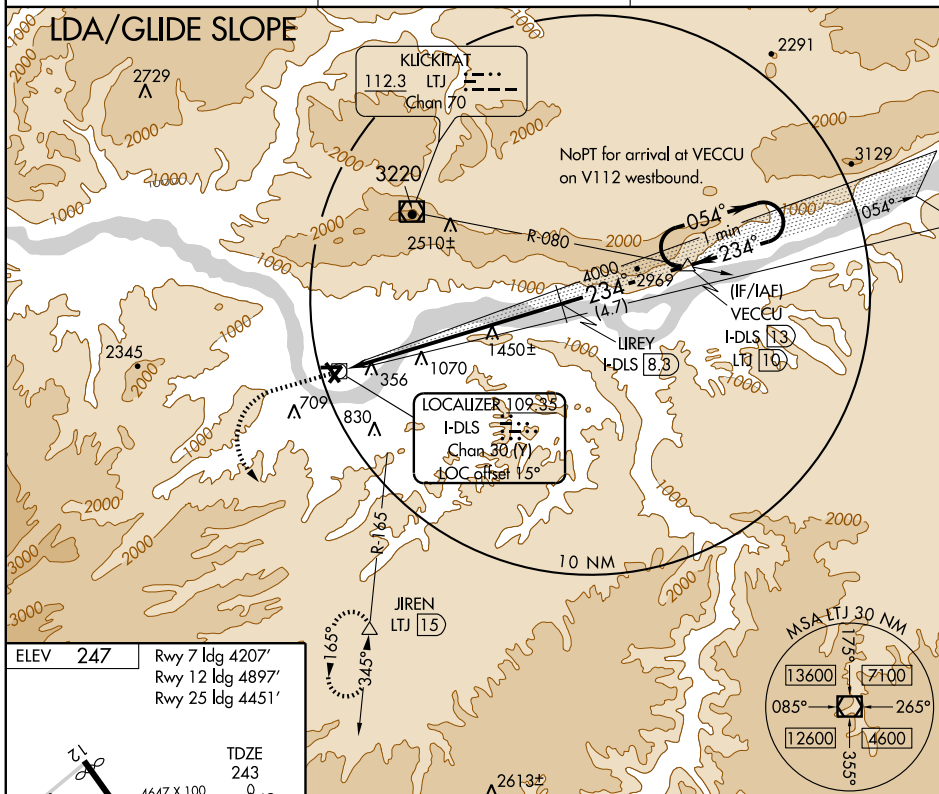
THE DALLES/
COLUMBIA GORGE RGNI/LTHE DALLES MUNI (DLS)

LDA/DME RWY 25

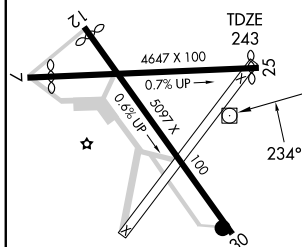
NA Circling requires descent on GS to MDA.
Glide slope provided by standard glide slope equipment.
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 1600 then climbing left turn to 7000 via heading 135° and LTJ VOR/DME R-165 to JIREN/LTJ 15 DME and hold, continue climb-in-hold to 7000.

ASOS 135.175	SEATTLE CENTER 119.65 257.6	UNICOM 123.0 (CTAF) 0
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ELEV 247	Rwy 7 Idg 4207'
	Rwy 12 Idg 4897'
	Rwy 25 Idg 4451'



REIL Rwy 30 0
MIRL Rwy 7-25 and 12-30 0

Knots	60	90	120	150	180
Min:Sec					

	1600	7000	LTJ R-165 112.3	JIREN △	Use I-DLS DME when on the localizer course.	VECCU I-DLS 13	One Minute Holding Pattern
	↑	↻ 135°					
			LIREY I-DLS 8.3				
			4000				
			8.2 NM	4.7 NM			
CATEGORY	A	B	C	D			
S-LDA/GS 25	1368-2¾	1125 (1200-2¾)			NA		
CIRCLING	1380-3	1133 (1200-3)			NA		

APP CRS 335°	Rwy Idg TDZE Apt Elev	N/A N/A 247
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THE DALLES/COLUMBIA GORGE RGNL/THE DALLES MUNI (DLS)

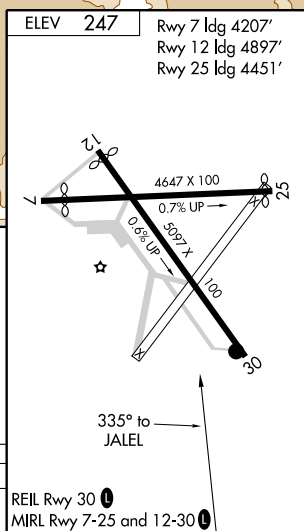
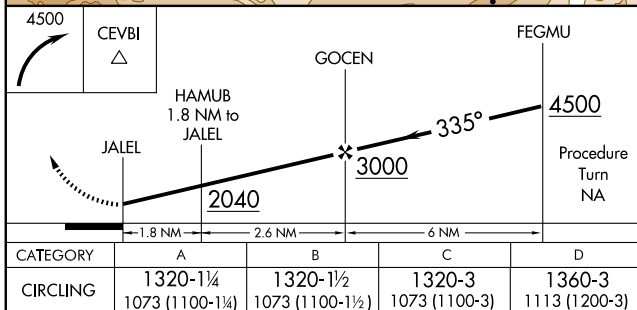
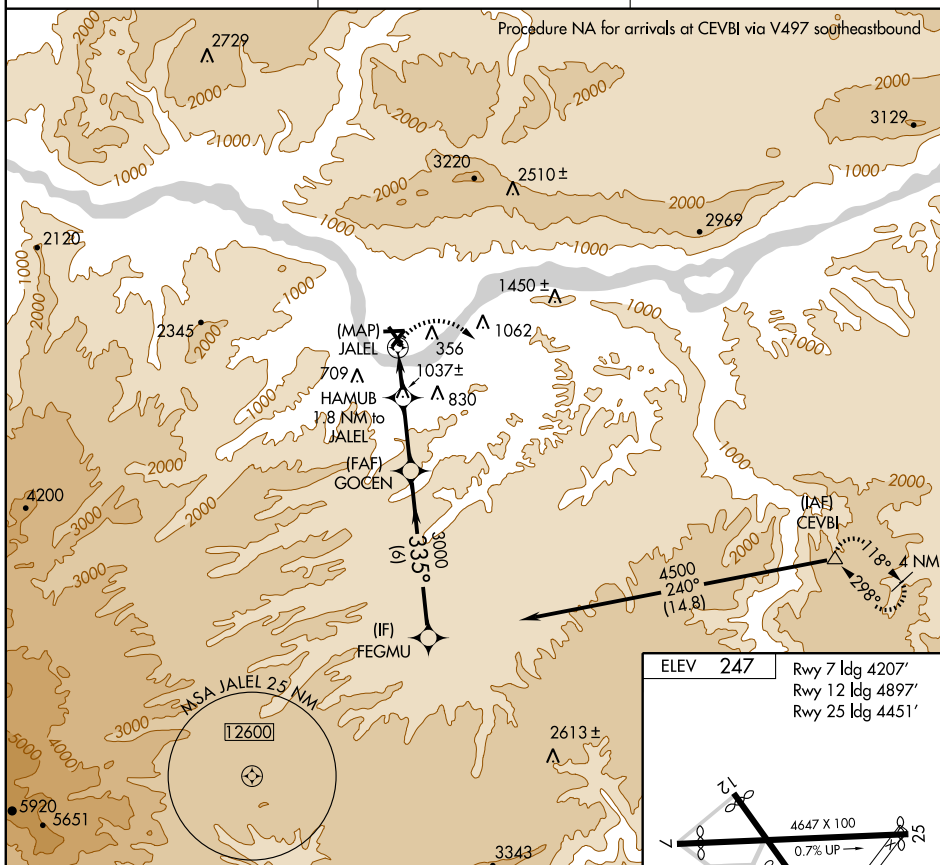
RNAV (GPS)-A

T DME/DME RNP-0.3 NA. Circling to Rwy 7 NA at night.
A Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 4500 direct CEVBI and hold.

ASOS
135.175

SEATTLE CENTER
119.65 257.6

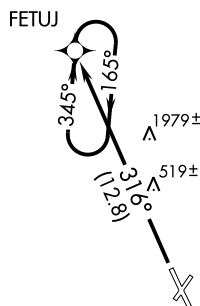
UNICOM
123.0 (CTAF) 

SEATTLE CENTER
124.2 317.6
McMINNVILLE RADIO
122.45

CONTIGUOUS U. S. ADIZ

W-570

W-570



NOTE: 1. GPS required
2. RNAV 1

NOTE: Rwy 31: 2000-3 or standard with minimum climb
of 350' per NM to 4500'.
Rwys 1, 13, and 19 not authorized for this
Departure Procedure.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 31: Climb to 5000 via 316° course to FETUJ WP.

Northbound aircraft continue on course to assigned altitude.

Southbound aircraft continue climb in FETUJ WP holding pattern (south, right turn, 345° inbound) to MEA for assigned route before proceeding on course.

APP CRS
136°

Rwy Idg
TDZE
28

Apt Elev
36

RNAV (GPS) RWY 13

TILLAMOOK (TMK)

When local altimeter setting not received, use Astoria altimeter setting.

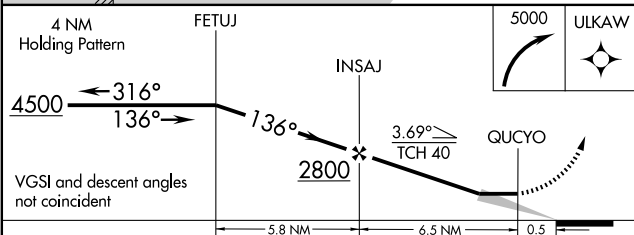
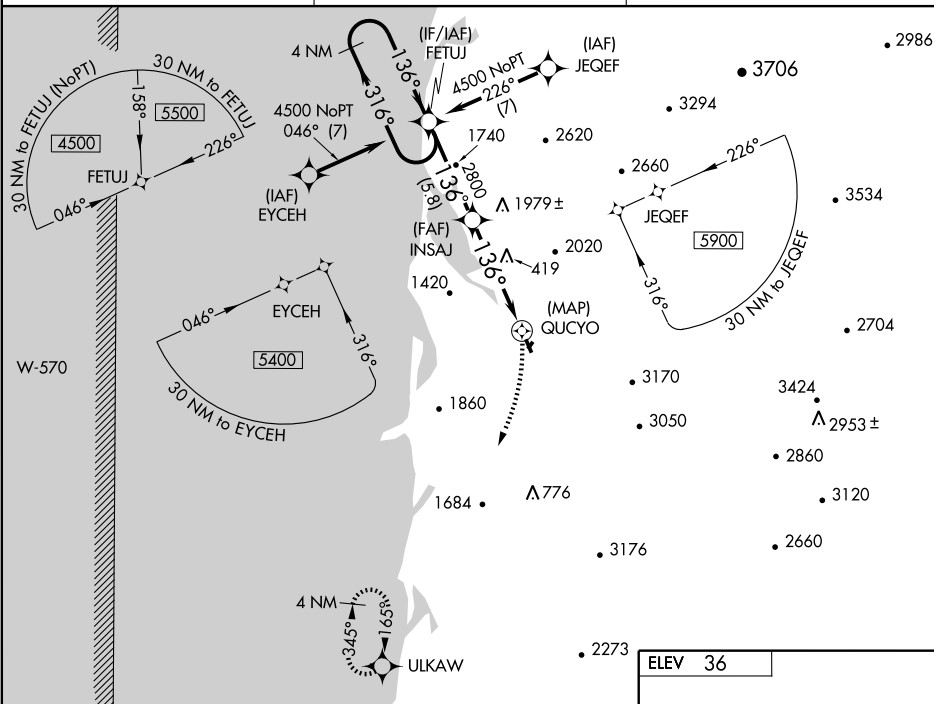
NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Circling NA Rwy 1-19 at night.

MISSED APPROACH: Climbing right turn to 5000 direct ULKAW WP and hold.

AWOS-3
120.0

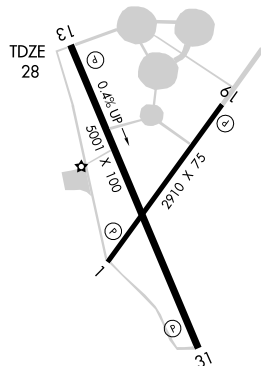
SEATTLE CENTER
124.2 317.6

UNICOM
122.8 (CTAF) 0



CATEGORY	A	B	C	D
RNAV MDA	760-1	732 (800-1)	760-2	NA
CIRCLING	880-1	920-1¼	920-2¾	NA
	844 (900-1)	884 (900-1¼)	884 (900-2¾)	
ASTORIA ALTIMETER SETTING MINIMUMS				
RNAV MDA	1280-1¼	1280-1½	1280-3	NA
	1252 (1300-1¼)	1252 (1300-1½)	1252 (1300-3)	
CIRCLING	1420-1¼	1460-1½	1460-3	NA
	1384 (1400-1¼)	1424 (1500-1½)	1424 (1500-3)	

ELEV 36



REIL Rwy 13

MIRL Rwy 1-19 and 13-31 0

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI **VOR/DME or GPS-A**
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI **NDB or GPS Rwy 34**
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL **RNAV (GPS) Rwy 26¹²**
VOR Rwy 8³

¹NA when local weather not available.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Category C, 800-2¾; Category D, 900-3.

AURORA, OR

AURORA STATE **LOC Rwy 17¹**
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

¹Category D, 800-2¾.

²NA when local weather not available.

³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI **NDB Rwy 13¹**
NDB Rwy 31²

¹Categories A,B, 1100-2; Categories C,D,
1100-3.

²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI **RNAV (GPS) Rwy 13¹²**
VOR-A¹³
VOR/DME Rwy 13²⁴

¹NA when local weather not available.

²Category D, 900-2¾.

³Categories A,B, 1900-2; Categories C,D,
1900-3.

⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL **ILS or LOC Rwy 16**
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD **VOR Rwy 31**
Category D, 800-2¾.

BILLINGS, MT

BILLINGS LOGAN
INTL **NDB Rwy 10L¹**
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

¹Category D, 800-2¾.

²Categories A,B,C,D, 800-2¾.

³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) **LOC BC Rwy 28L¹**
RNAV (GPS) Y Rwy 10R²
RNAV (GPS) Y Rwy 28L²
VOR/DME or TACAN Rwy 10L¹
VOR/DME or TACAN Rwy 28L¹

¹Category E, 900-3.

²Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD **VOR Rwy 12**
Category C, 800-2¾; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL .. **RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 19¹

NA when local weather not available.

¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY RNAV (GPS) Rwy 31¹
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2½.

²Category C, 800-2¼; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI VOR-A
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL NDB Rwy 10¹
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI VOR Rwy 30
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY ILS Y Rwy 15¹
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL ILS or LOC Rwy 3
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2¼; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2¼; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD ILS or LOC Rwy 27¹
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL RNAV (GPS) Rwy 22¹
VOR or GPS-A²

¹Category C, 800-2¼; Category D, 200-2¼.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD ILS or LOC/DME Rwy 5
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI VOR-A
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK RNAV (GPS) Rwy 34
NA when local weather not available.

DILLON, MT

DILLON VOR or GPS-A,1500-3
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY VOR Rwy 29
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND RNAV (GPS)-A
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD RNAV (GPS) Rwy 25¹
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2¼.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI RNAV (GPS) Rwy 3¹
RNAV (GPS) Rwy 21²
VOR/DME Rwy 3¹
VOR Rwy 21¹

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2¼; Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD ILS or LOC/DME Z Rwy 16R¹
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L^{1,2}
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2¼;
Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD ILS or LOC/DME Rwy 23
Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) ILS or LOC/DME Rwy 16R
NA when control tower closed.
NA when local weather not available.

FORT BENTON, MT

FORT BENTON RNAV (GPS) Rwy 23
NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY ILS or LOC Rwy 34^{1,2}
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2¼;
Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¼; Category D,
1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¼; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL VOR Rwy 12
Categories A,B, 900-2; Categories C,D, 900-3.
VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY NDB or GPS Rwy 12,900-2¾

GOODING, ID

GOODING MUNI RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA NDB Rwy 15
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL NDB Rwy 34
Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY RNAV (GPS)-A
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL RNAV (GPS) W Rwy 31
Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY VOR Rwy 26
Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁵
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷⁹
 VOR-A⁸
 VOR/DME-B⁵

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY

JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

NAME ALTERNATE MINIMUMS

JEROME, ID

JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KLAMATH FALLS, OR

KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2½.

LEWISTON, ID

LEWISTON-NEZ PERCE
 COUNTY ILS Rwy 26¹²
 RNAV (GPS) Rwy 8³
 RNAV (GPS) Rwy 12³
 RNAV (GPS) Rwy 26³
 VOR Rwy 8⁴
 VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI RNAV (GPS) Rwy 7
 VOR Rwy 7

Category D, 800-2½.

NAME ALTERNATE MINIMUMS

LIVINGSTON, MT

MISSION FIELD **VOR/DME-B¹**
VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²Categories A, B, 2200-2; Categories C,D,
2200-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI **ILS or LOC Rwy 22**
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2¼.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD **ILS or LOC/DME Rwy 14¹²**
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D,
900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D,
2300-3.

⁴Categories A, B, 1100-2; Categories C, D,
1100-3.

⁵Categories A, B, 1400-2; Category C, D
1400-3.

MISSOULA, MT

MISSOULA INTL **ILS Rwy 11¹**
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11², 800-2½
VOR/DME or GPS-A, 2000-3
VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D,
1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... **ILS or LOC Rwy 32R¹**
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

NAME ALTERNATE MINIMUMS

NEWCASTLE, WY

MONDELL FIELD **VOR or GPS Rwy 31**
NA except for operators with approved weather
reporting service.
Categories A,B, 900-2; Categories C,D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL **ILS or LOC Rwy 4¹**
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS, Categories A,B, 800-2; Category C, 900-
2¼, Category D, 1000-3. LOC, Category C,
900-2¼, Category D, 1000-3.

²Category C, 900-2¼; Category D, 1000-3.

³Categories A,B, 1100-2; Categories C,D,
1100-3.

⁴Categories C,D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG **RNAV (GPS) Rwy 7**
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL **ILS or LOC Rwy 17¹²**
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²³
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

³Category D, 800-2¼.

ONTARIO, OR

ONTARIO MUNI **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available.

PASCO, WA

TRI-CITIES **ILS or LOC Rwy 21R¹²**
RNAV (GPS) Rwy 3L
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 21R
RNAV (GPS) Rwy 30
VOR Rwy 21R³
VOR/DME Rwy 30

NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D,
700-2¼. LOC, Category D, 800-2¼.

³Category D, 800-2¼.

14 JAN 2010 to 11 FEB 2010

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD ILS or LOC Rwy 22¹
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI NDB Rwy 16¹
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY RNAV (GPS) Rwy 35
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND NDB Rwy 19¹
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

ROCK SPRINGS, WY

ROCK SPRINGS SWEETWATER
COUNTY VOR-B
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL RNAV (GPS)-B
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

MCNARY FIELD ILS or LOC Rwy 31¹²
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2¾; Category D, 800-2½. LOC, Category C, 800-2¾; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK VOR/DME or GPS-A
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL ILS Rwy 13R¹
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½;
Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾;
Category D, 1000-3.

⁵Categories A, B, C, D, 800-2¾.

SHERIDAN, WY

SHERIDAN
COUNTY ILS or LOC/DME Rwy 32
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2¾.

SIDNEY, MT

SIDNEY-RICHLAND MUNI NDB Rwy 1¹
NDB Rwy 19²

¹Category D, 800-2¾.

²Categories C, D, 800-2½.

SPOKANE, WA

FELTS FIELD ILS/DME Rwy 21R¹
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L³

¹Categories A, B, 1000-2; Category C, 1000-2¾.

²Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

³Categories A, B, 1000-2; Categories C, D, 1000-3

SPOKANE INTL ILS or LOC Rwy 3¹
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

¹ILS, Category D, 700-2.

²Category E, 800-2½.

RADAR INSTRUMENT APPROACH MINIMUMS

CHEYENNE, WY

Amdt 1B, MAY 8, 2008 (FAA)

ELEV 6159

CHEYENNE RGNL/JERRY OLSON FIELD

RADAR - 124.55 263.075   NA

				DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS		DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS
PAR	27	3.0°/55/918	ABCDE	6321/24	200 (200-½)			
ASR	9		ABC	6500-1	357 (400-1)	DE	6500-1¼	357 (400-1¼)
	27		ABC	6520/24	399 (400-½)	DE	6520/50	399 (400-1)
CIR	ALL		AB	6660-1	501 (600-1)	C	6660-1½	501 (600-1½)
			D	6720-2	561 (600-2)	E	6960-2¾	801 (900-2¾)

For inoperative MALSR increase, PAR 27 category E visibility to RVR 4000, ASR 27 category D visibility to RVR 6000 and ASR 27 category E visibility to 1½. PAR not available when ASR out of service.

GRAY AAF (KGRF), FORT LEWIS, WA (09155 USA)

ELEV 300

RADAR - (E) 128.2 139.925 239.0 317.4   NA

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR ¹³	15	3.0°/55/947	ABCD	499/40	200	(200-¾)
	33 ²	3.0°/39/730	ABCD	500-¾	200	(200-¾)

¹Opr Mon-Fri 1600-0759Z++, exc federal holidays. POC DSN 357-4953 or C253-967-4953. Svc incl PAR and apch mnt of ILS and NDB. ²PAR not authorized when R6703D is active. ³Circling not authorized.

OPS 138.6

Contact Seattle approach for vectors to Final on 120.1 290.9

Missed Approach:

Rwy 15: Climb to 700, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 700, then climbing left turn to 2000 direct GR LOM and hold NW, RT, 147° inbound (ADF REQUIRED).

Rwy 33: Climb to 700, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 2000 direct GR LOM and hold NW, RT, 147° inbound (ADF REQUIRED).

LOST COMMUNICATIONS (ALL RWYS): As directed by ATC on initial contact.

RADAR INSTRUMENT APPROACH MINIMUMS**OAK HARBOR (OKH), WA**

Amdt 1A, Mar 12, 2009 (FAA)

ELEV 193**A J EISENBERG****RADAR - 118.2 285.65 ▽ ▲ NA**

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HATH/ HAA</u>	<u>CEIL-VIS</u>
ASR	7		AB CD	620-1 NA	427	(500-1)
CIR	All Rwy		A B CD	620-1 660-1 NA	427 467	(500-1) (500-1)

When local altimeter setting not received, use Whidbey Island NAS altimeter setting and increase all MDAs 40 feet. Circling north of Rwy 7-25 NA at night. Visibility reduction by helicopters NA.

RADAR INSTRUMENT APPROACH MINIMUMS

WHIDBEY ISLAND NAS (KNUW), (AULT FLD) WA (09071 USN)

ELEV 47

RADAR - (E) 126.05x 126.85x 266.8x 299.6x 310.8x 322.5x 327.0x 343.75x ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ¹	25 ^{2 3 10}	3.0°/40/718	ABCDE	228-½	200	(200-½)
	14 ^{5 11}	3.0°/49/947	ABCDE	139-¼	100	(100-¼)
	7	3.0°/50/961	ABCDE	125-½	100	(100-½)
	32 ^{2 10}	3.0°/34/776	ABCDE	147-¼	100	(100-¼)
W/O GS	25 ^{3 6}		ABC	480-¾	452	(500-¾)
			DE	480-1	452	(500-1)
	14 ^{7 11}		AB	340-½	301	(300-½)
			CDE	340-¾	301	(300-¾)
	7		ABCDE	300-1	275	(300-1)
	32 ^{8 10}		ABC	500-¾	453	(500-¾)
			DE	500-1	453	(500-1)
ASR	7		AB	440-1	415	(400-1)
			CD	440-1¼	415	(400-1¼)
			E	440-1½	415	(400-1½)
	14 ^{4 11}		AB	600-½	561	(600-½)
			C	600-1	561	(600-1)
			D	600-1¼	561	(600-1¼)
			E	600-1½	561	(600-1½)
	32 ^{8 11}		AB	680-½	633	(700-½)
			C	680-1¼	633	(700-1¼)
			D	680-1½	633	(700-1½)
			E	680-1¾	633	(700-1¾)
	25 ⁴		AB	760-½	732	(800-½)
			C	760-1½	732	(800-1½)
			D	760-1¾	732	(800-1¾)
			E	760-2	732	(800-2)
CIR ⁹			A	780-1	733	(800-1)
			B	800-1¼	753	(800-1¼)
			C	800-2¼	753	(800-2¼)
			D	860-2¾	813	(900-2¾)
			E	1100-3	1053	(1100-3)

¹No-NOTAM MP: PAR 1600-0800Z++ Mon. ²When ALS inop, increase vis CAT ABCDE to ¾ mile.

³Caution: Trees 265' MSL, 3270' from THLD, 1647' right of RCL. ⁴When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1¼ miles, CAT D to 2 miles, CAT E to 2¼ miles. ⁵When ALS inop, increase CAT ABCDE vis to ½ mile. ⁶When ALS inop, increase vis CAT ABC to 1¼ miles, CAT DE to 1½ miles. ⁷When ALS inop, increase vis CAT ABCDE to 1 mile. ⁸When ALS inop, increase vis CAT ABC to 1¼ mile, CAT DE to 1½ mile. ⁹When CIRCLING to RWY 25 or 32, increase vis CAT A to 1¼ mile. ¹⁰Amdt 2. ¹¹Amdt 1.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI
DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.
Rwy 34, turn left. All aircraft climb direct CVO VOR/
DME and continue climb in CVO VOR/DME holding
pattern, (E, right turns, 261° inbound) to cross CVO
VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417'
per NM to 9000, or 2800-3 for climb in visual conditions.
Rwy 16, std. w/min. climb of 321' per NM to 10200, or
2800-3 for climb in visual conditions. **Rwy 22**, NA-
obstacles. **Rwy 34**, std. w/min. climb of 369' per NM to
9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing right
turn to 10200 via heading 130° and CPN VOR/DME R-
340 to CPN VOR/DME, continue climb-in-hold to 10200
(north, left turn, 166° inbound), or for climb in visual
conditions, cross Bowman Field Airport at or above 7700
then proceed via CPN R-309 to CPN VOR/DME,
continue climb-in-hold to 10200 (north, left turn, 166°
inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 16, climbing left turn to 10200 via heading 100° and
CPN VOR/DME R-335 to CPN VOR/DME, continue
climb-in-hold to 10200 (north, left turn, 166° inbound), or
for climb in visual conditions, cross Bowman Field
Airport at or above 7700 then proceed via CPN R-309 to
CPN VOR/DME, continue climb-in-hold to 10200 (north,
left turn, 166° inbound).

NOTE: **Rwy 16**, multiple trees beginning 865' from
departure end of runway, 243' left of centerline, up to 70'
AGL/5097' MSL. Rod on hangar 570' from departure
end of runway, 278' left of centerline, 54' AGL/5054'
MSL. Multiple trees beginning 787' from departure end
of runway, 165' right of centerline, up to 70' AGL/5098'
MSL. Multiple transmission lines beginning 4602' from
departure end of runway, 1664' right of centerline, 80'
AGL/5159' MSL. **Rwy 34**, multiple transmission lines
beginning 2242' from departure end of runway, 964' left
of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles.
DEPARTURE PROCEDURE: Use JATTS
DEPARTURE.

ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29,34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8,31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17**, NA. **Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8,13**, turn left.

Rwys 26,31,35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8,26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading 098° to 4600 before turning right.
NOTE: **Rwy 10L**, fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL (GOWEN FIELD)

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, turn left **Rwys 10L, 10R**, turn right. Climb on BOI R-214 within 20 NM to cross BOI VORTAC at or above MEA/MCA for direction of flight.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/ min. climb of 410' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 1**, Climbing right turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.
NOTES: **Rwy 1**, Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC.

Southbound aircraft: **Rwy 13**, climb straight ahead.

Rwy 31, turn right. All aircraft proceed via CZI R-319 to CZI VOR/DME.

BURLEY, ID

BURLEY MUNI

TAKE-OFF MINIMUMS: All runways, cross departure end of runway at or above 35' AGL.

DEPARTURE PROCEDURE: All runways, climb direct BURLEY (BYI) VOR/DME. Continue climb on R-305 within 10 miles to cross BYI VOR/DME: R-024 CW R-054 at or above 5500; R-055 CW R-240 at or above 8000; R-241 CW R-023 at or above 5900.

NOTE: **Rwy 2**, bridge 252' from departure end of runway, 513' left of centerline, 110' AGL/4195' MSL. Stack 2205' from departure end of runway, 857' right of centerline, 79' AGL/4236' MSL. Elevator 4092' from departure end of runway, 297' right of centerline, 133' AGL/4283' MSL. **Rwy 20**, antenna 523' from departure end of runway, 338' right of centerline, 43' AGL/4217' MSL. **Rwy 24**, tree 630' from departure end of runway, 521' right of centerline, 41' AGL/4215' MSL. Grain elevator 3106' from departure end of runway, 163' left of centerline, 137' AGL/4317' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR**BURNS MUNI**

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...

...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT**BERT MOONEY**

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL. **Rwy 29**, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID**CALDWELL INDUSTRIAL**

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY**CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)**

DEPARTURE PROCEDURE: **Rwys 3, 8, 12**, turn left.

All other runways, turn right. All aircraft climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA**CHEHALIS-CENTRALIA**

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY**CHEYENNE RGNL/JERRY OLSON FIELD**

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY**YELLOWSTONE RGNL**

TAKE-OFF MINIMUMS: **Rwy 4**, 1500-2 or std. with a min. climb of 250' per NM to 6800. **Rwy 22**, 1600-2 or std. with a min. climb of 340' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 4, 22**, turn left.

All aircraft climb direct COD VOR/DME. Climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above: COD R-350 CWR-170, 6000; or R-171 CWR-R-349, 11800.

COEUR D'ALENE, ID**COEUR D'ALENE-PAPPY BOYINGTON FLD**

TAKE-OFF MINIMUMS: **Rwy 5**, CAT A,B, 1700-2 or std. with a min. climb of 230' per NM to 4000. CAT C,D, 2600-2 or std. with a min. climb of 320' per NM to 5400.

DEPARTURE PROCEDURE: **Rwys 1, 5**, turn left, climb via COE R-005 to 5400, reverse course, continue climb direct COE VOR. **Rwy 19**, turn right. **Rwy 23**, turn left, climb via COE R-232 to 5000, reverse course, continue climb direct COE VOR.

COLSTRIP, MT**COLSTRIP (M46)****AMDT 2 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV) DEPARTURE. **Rwy 24**, use CONUK (RNAV) DEPARTURE.

CONRAD, MT**CONRAD**

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR**CORVALLIS MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY**NORTH BIG HORN COUNTY**

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA**DEER PARK**

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 360' per NM to 5600.

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading; **Rwy 22**, climbing left turn to heading 130°; **Rwys 4, 34**, climbing right turn to heading 210°; **All aircraft** intercept and continue climb via the 170° bearing from DPY NDB to intercept GEG R-006 to GEG VORTAC.

DILLON, MT**DILLON**

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwesterly bound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY**CONVERSE COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CWR R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CWR R-199 9600; R-200 CWR R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID**DRIGGS-REED MEMORIAL (DIJ)****AMDT 2 08157 (FAA)**

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA**ORCAS ISLAND (ORS)****AMDT 1 09351 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENSBURG, WA**BOWERS FIELD**

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA**EPHRATA MUNI (EPH)****AMDT 3 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles. DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn...**Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.

Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER, 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMD T 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA

..... **Rwy 15**, 300-1***Rwy 33**, 300-1**

*Or standard with minimum climb of 430/NM to 500.
**Or standard with minimum climb of 380/NM to 600.

Rwy 15 climb runway heading to 700 then climbing left turn direct GR LOM. **Rwy 33** climb runway heading direct GR LOM. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GR LOM climb on course. All others continue climb in GR holding pattern (Hold NW, RT, 147° inbound) to cross GR LOM at or above: 071° CW 134° bearing from GR LOM, 8500'; 261° CW 329° bearing from GR LOM, 1500.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/ min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°.

All aircraft continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/ min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1¾ or std. w/ min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence... **Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence... **Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence... **Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)

AMDT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.

DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading. **All aircraft** climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2¾ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)

AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1¾ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 1200-2 or std. with a min. climb of 320' per NM to 1300.

DEPARTURE PROCEDURE: Departure procedure limited to CAT A,B aircraft. **Rwy 30**, climb straight ahead to 1500 then climbing right turn direct LSO NDB. Continue climb in holding pattern (N, right turns, 171° inbound) to cross LSO NDB at or above 3000 direct BTG VORTAC or MEA for route of flight.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4,10,22,28**, NA- Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/ DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/ DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400.

Rwy 32, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14,25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800.

Rwy 30, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12,16**, climbing left turn direct LGD NDB, thence; **Rwys 30,34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKVR-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKVR-148 then via LKVR-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12,21**, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.
DEPARTURE PROCEDURE: **Rwy 22**, turn left.
All aircraft climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12, 900-2** or std. with a min. climb of 220' per NM to 6200.
DEPARTURE PROCEDURE: **Rwys 2, 30** turn left. **Rwys 7, 12, 20**, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.
Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.
NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.
Rwy 15, use EYSE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-
Environmental.
DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

ORIG-A 09043 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 298' per NM to 3900 or 1100-2 ½ for climb in visual conditions. **Rwy 22**, std. w/ a min. climb of 281' per NM to 3900 or 1100-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...
Rwy 22, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...
... for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.
DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD AFB (KTCM)

TACOMA, WA 09127

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1½ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windscock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270'/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11, 70'** AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400.
Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. **All aircraft** climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/ 4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/ 4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1. DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL. **Rwy 29**, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL. **Rwy 28R**, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. **All aircraft** climb via BTGR-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000'; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. **All aircraft** climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 28, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.

DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climbing heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thenceClimb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/ min. climb of 310' per NM to 700. **Rwy 19**, std. w/ min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/ min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence... **Rwy 8**, climbing right turn direct PSC VOR/DME, thence... **Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence... **Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence...

...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL

DEPARTURE PROCEDURE: Aircraft departing RIW R-280 CW R-170 climb on course. All others climb to 6600, then continue climb direct RIW VOR/DME to cross RIW VOR/DME at or above 7500 before proceeding on course.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY

DEPARTURE PROCEDURE: Climb direct OCS VORTAC. Aircraft departing OCS R-205 CW R-170 climb on course. All others climb in the OCS holding pattern (E, right turns, 260° inbound) to cross OCS VORTAC at or above 7300.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL. **Rwy 13R**, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL.

Rwy 11, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
...1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
...climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD

TAKE-OFF MINIMUMS: **Rwys 3L, 3R**, std. w/ min. climb of 400' per NM to 3600, or 1600-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 360' per NM to 3100, or 1600-3 for climb in visual conditions. **Rwy 21R**, std. w/ min climb of 375' per NM to 3100, or 1600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course. **Rwys 21L, 21R**, climb to 2800, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course.

NOTE: **Rwy 3L**, multiple trees beginning 5000' from departure end of runway, 530' left of centerline, up to 104' AGL/2513' MSL. Tree 1854' from departure end of runway, 773' right of centerline, 54' AGL/2030' MSL, tree 2365' from departure end of runway, 798' right of centerline, 61' AGL/2037' MSL. **Rwy 3R**, multiple trees beginning 5016' from departure end of runway, 1033' left of centerline, up to 104' AGL/2529' MSL, pole 2.5 NM from departure end of runway, 2059' left of centerline, 62' AGL/2454' MSL, hangar 92' from departure end of runway, 341' right of centerline, 5' AGL/1967' MSL, NDB 925' from departure end of runway, 270' right of centerline, 25' AGL/1987' MSL, multiple trees beginning 1870' from departure end of runway, 271' right of centerline, up to 128' AGL/3560' MSL. **Rwy 21L**, pole 316' from departure end of runway, 302' left of centerline, 33' AGL/1992' MSL, tree 926' from departure end of runway, 362' left of centerline, 50' AGL/2006' MSL, building 1057' from departure end of runway, 158' left of centerline, 19' AGL/1975' MSL, building 1061' from departure end of runway, 110' left of centerline, 19' AGL/1975' MSL. Elevator 4080' from departure end of runway, 598' left of centerline, 134' AGL/2080' MSL. **Rwy 21R**, hangar 204' from departure end of runway, 496' left of centerline, 13' AGL/1969' MSL, pole 659' from departure end of runway, 404' left of centerline, 26' AGL/1979' MSL, building, 946' from departure end of runway, 230' left of centerline, 24' AGL/1973' MSL, pole 1399' from departure end of runway, 2' left of centerline, 33' AGL/1982' MSL, elevator 2655' from departure end of runway, 1097' left of centerline, 134' AGL/2080' MSL, tree 189' from departure end of runway, 511' right of centerline, 46' AGL/1979' MSL, tree 480' from departure end of runway, 404' right of centerline, 43' AGL/1979' MSL, pole 1252' from departure end of runway, 55' right of centerline, 29' AGL/1975' MSL, pole 1427' from departure end of runway, 13' right of centerline, 33' AGL/1982' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSO R-163. **Rwy 30**, do not exceed 210 knots until established on MSO R-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSO R-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100.

Rwy 7, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26**, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ... for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900. **Rwys 25, 30**, CAT A, B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C, D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-200 7400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEEZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JEEZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL. **Rwy 26**, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25:** Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25:** Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL**

RWYS: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7:** Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28,** NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4,** NA. **Rwy 9,** 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27,** 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4,** NA. **Rwys 9, 22, 27,** Use ZILLA DEPARTURE PROCEDURE.

LOC I-AWO	APP CRS	Rwy Idg	5332
111.5	339°	TDZE	131
		Apt Elev	137

LOC RWY 34

ARLINGTON MUNI (AWO)

▼ Inoperative table does not apply to Cat C.
▲ NA Use Arlington altimeter setting, if not received use Whidbey Island NAS altimeter setting and increase all MDAs 100 feet.

MAIS

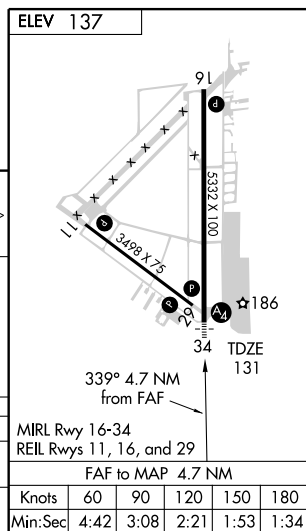
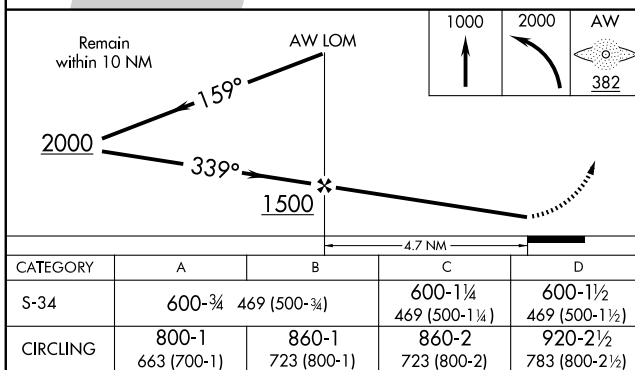
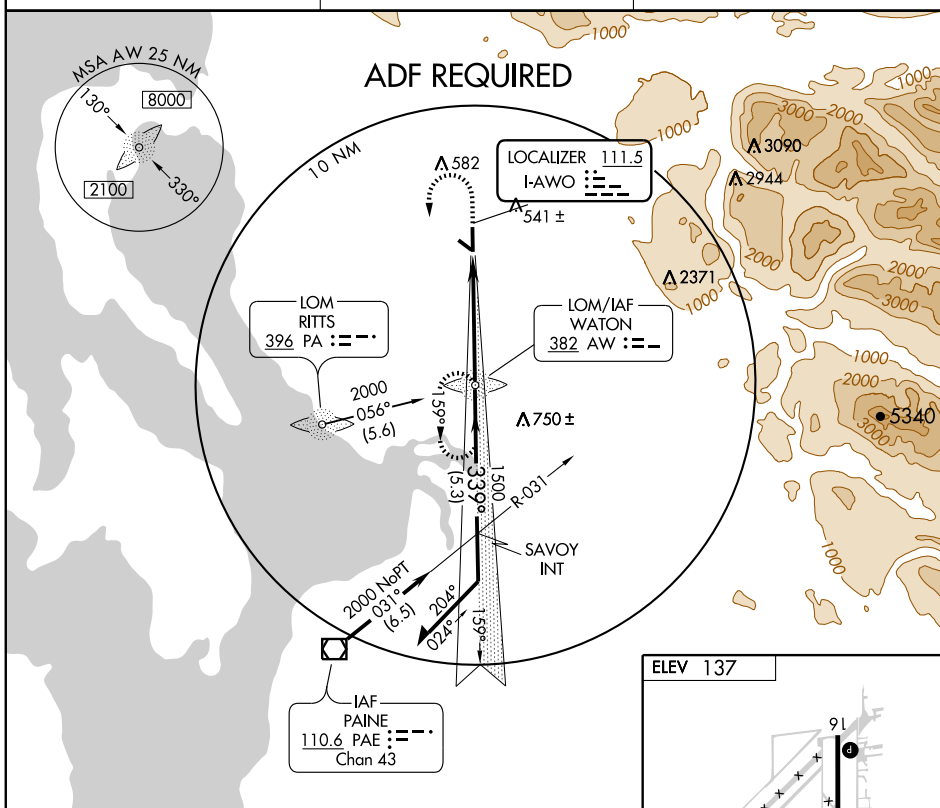


MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct AW LOM and hold.

AWOS-3
135.625

SEATTLE CENTER
128.5 306.9

UNICOM
122.7 (CTAF) 0



LOM AW
382

APP CRS
339°

Rwy Idg	5332
TDZE	131
Apt Elev	137

NDB or GPS RWY 34
ARLINGTON MUNI (AWO)

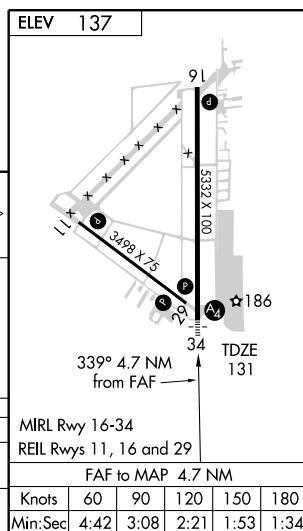
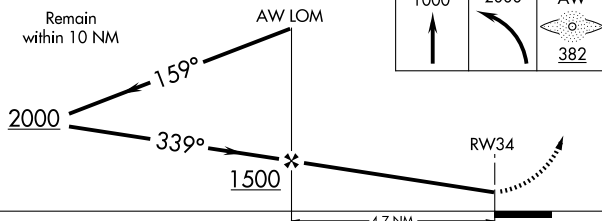
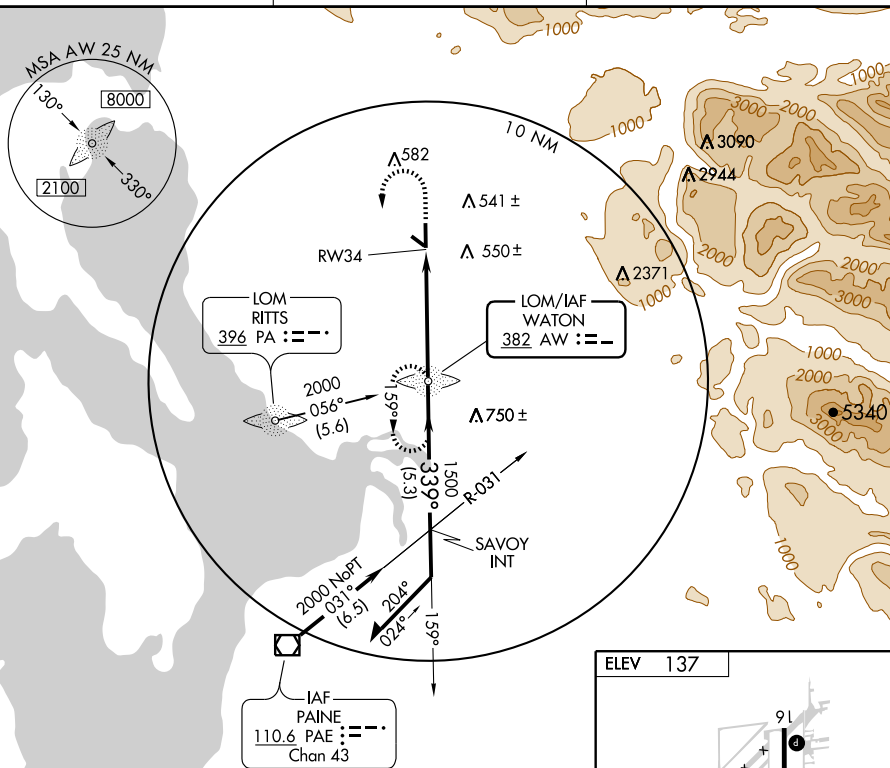
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A Use Arlington altimeter setting, if not received
Island NAS altimeter setting and increase

MALS
A₄

MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct AW LOM and hold.

AWOS-3
135,625

SEATTLE CENTER
128.5 306.9

UN|COM
122.7 (CTAF) **L**

CATEGORY	A	B	C	D
S-34	860-3/4	729 (800-3/4)	860-2 729 (800-2)	860-2 1/4 729 (800-2 1/4)
CIRCLING	860-1	723 (800-1)	860-2 723 (800-2)	920-2 1/2 783 (800-2 1/2)

SEATTLE CLNC DEL
128.0
SEATTLE DEP CON
123.85

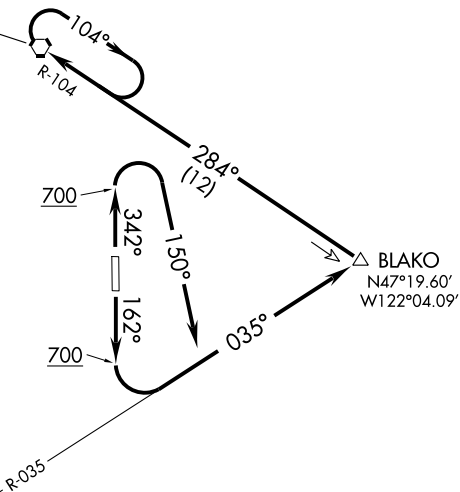
TAKE-OFF MINIMUMS

RWY 16: Standard with minimum climb of 266' per NM to 1200 or 1200-2½ for climb in visual conditions, do not exceed 180 KIAS until passing BLAKO.

RWY 34: Standard with minimum climb of 300' per NM to 900 or 1200-2½ for climb in visual conditions, do not exceed 180 KIAS until passing BLAKO.

SEATTLE
116.8 SEA
Chan 115
N47°26.12' W122°18.58'
L-1, H-1

McCHORD
109.6 TCM
Chan 33

TAKE-OFF OBSTACLE NOTES:

RWY 16: AAO 3.2 NM from DER, 3643' left of centerline 200' AGL/724' MSL.

RWY 34: AAO 3.2 NM from DER, 5520' right of centerline 200' AGL/639' MSL. Powerline 1804' from DER, on centerline, 80' AGL/122' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb heading 162° to 700', then climbing left turn to 3000 via the TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC; or climb in visual conditions east of RWY 16/34 to cross Auburn Muni southbound at or above 1200', then climb to 3000 via heading 150° and TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC. Do not exceed 180 KIAS until passing BLAKO. Thence....

TAKE-OFF RUNWAY 34: Climb heading 342° to 700', then climbing right turn to 3000 via heading 150° to TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC; or climb in visual conditions east of RWY 16/34 to cross Auburn Muni southbound at or above 1200', then climb to 3000 via heading 150° and TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC. Do not exceed 180 KIAS until passing BLAKO. Thence....

....hold E SEA VORTAC, RT, 284° inbound; when authorized by ATC, climb-in-hold to 5000, or as assigned before proceeding on course.

APP CRS 331°	Rwy Idg TDZE Apt Elev	N/A N/A 63
------------------------	-----------------------------	---------------------------------------

RNAV (GPS)-A
AUBURN MUNI (S50)

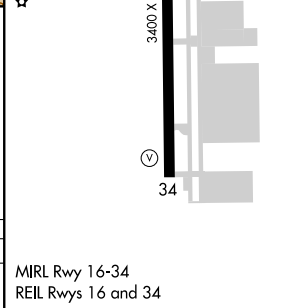
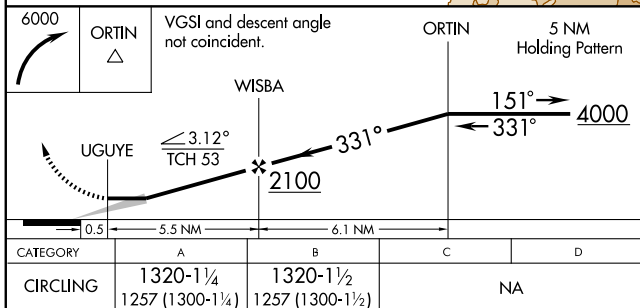
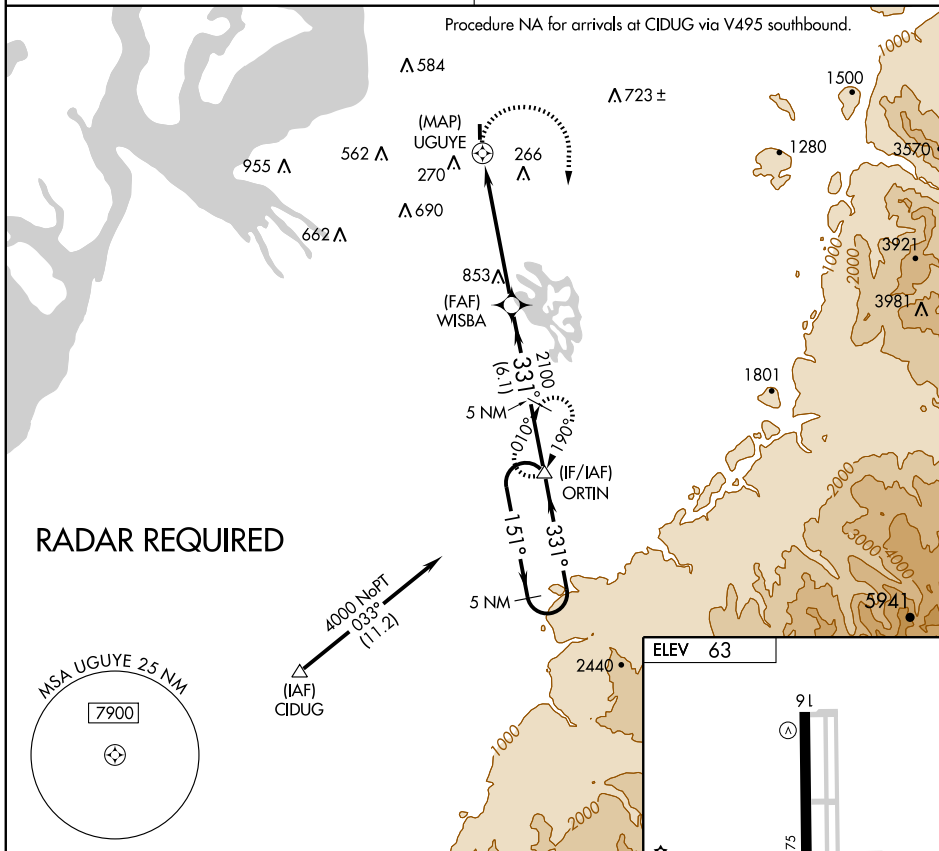
T	Circling NA west of Rwy 16-34.
A NA	Procedure NA at night. DME/DME RNP-0.3 NA. Use Seattle-Tacoma Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 6000 direct
ORTIN and hold, continue climb-in-hold to 6000.

SEATTLE APP CON
123.85

UNICOM
122.8 (CTAF)

Procedure NA for arrivals at CIDUG via V495 southbound.



AIRPORT DIAGRAM

AL-45 (FAA)

BELLINGHAM INTL (BLI)
BELLINGHAM, WASHINGTON

ATIS
134.45
BELLINGHAM TOWER ★
124.9 379.3
GND CON
127.4 379.3

ILS
CRITICAL
AREA

ELEV
163

91

B

162.5

48°48'N

RWY 16-34
S75, D160, ST175, DT250

HOT
CARGO

COMMERCIAL
AIRCRAFT
PARKING

TERMINAL

US
CUSTOMS

FIRE
STATION

CONTROL
TOWER
247

FBO

TRANSIENT
PARKING

GENERAL
AVIATION
HANGARS

GENERAL
AVIATION
PARKING

HANGAR

ILS
CRITICAL
AREA

FIELD
ELEV
170

342.5

34

NOTE: THIS AREA NOT VISIBLE
FROM TOWER

48°47'N

122°32.5'W

122°32'W

122°31.5'W

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

NW-1. 14 JAN 2010 to 11 FEB 2010

For inoperative MALSR, increase S-LOC 16 Cat D visibility to RVR 5000.

If local altimeter not received, use Friday Harbor altimeter setting and increase DA to 430 and increase all MDAs 80 feet.

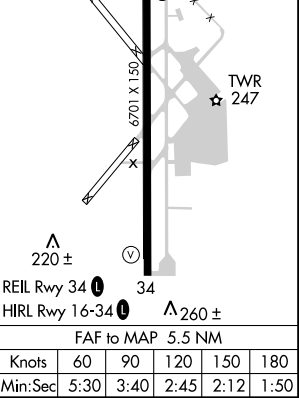
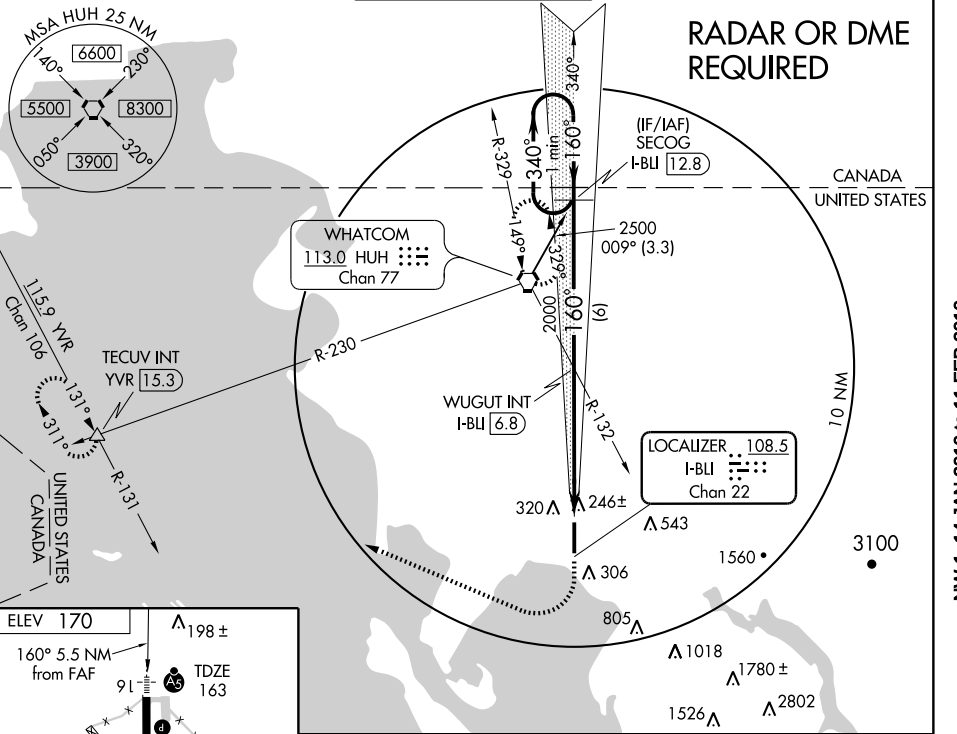
VDP NA when using Friday Harbor altimeter setting.

* RVR 1800 authorized with the use of FD or AP or HUD to DA.

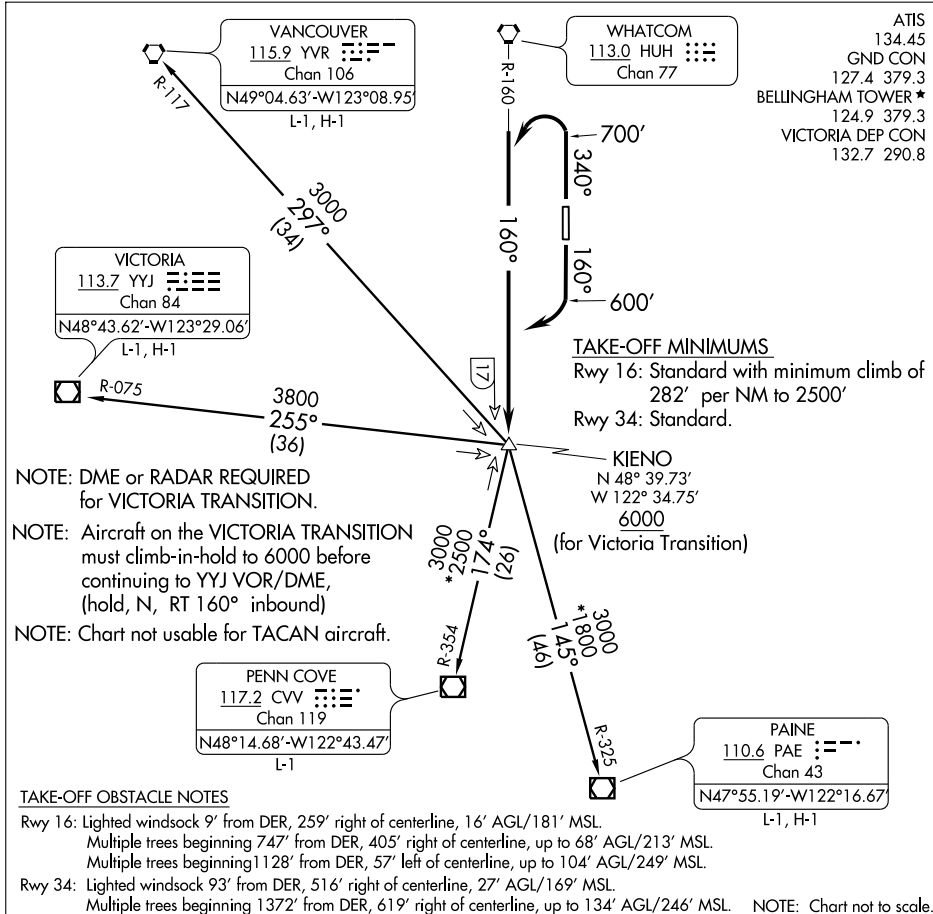
MALSR

MISSED APPROACH: Climb to 700 then climbing right turn to 2000 via heading 271° and YVR VORTAC R-131 to TECUV INT/YVR 15.3 DME and hold.

ATIS	VICTORIA TERMINAL APP CON	BELLINGHAM TOWER ★	GND CON	UNICOM
134.45	132.7 290.8	124.9 (CTAF) 0 379.3	127.4 379.3	122.95



One Minute Holding Pattern		SECOG I-BLI 12.8	WUGUT INT I-BLI 6.8	700 ↑	2000 ↷ 271°	YVR R-131 115.9	TECUV △
2000 ← 340° 160° → GS 3.00° TCH 50		2000 2000 2000 I-BLI 2.1 I-BLI 1.2 6 NM4.6 NM0.9					
CATEGORY	A	B		C		D	
S-ILS 16	* 363/24 200 (200-½)						
S-LOC 16	500/24 337 (400-½)					500/40 337 (400-¾)	
CIRCLING	620-1 450 (500-1)			620-1½ 450 (500-1½)		720-2 550 (600-2)	



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb heading 160° to 600', then climbing right turn to intercept HUH R-160 to KIENO INT, Thence....

TAKE-OFF RUNWAY 34: Climb heading 340° to 700', then climbing left turn to intercept HUH R-160 to KIENO INT. Thence....

....Maintain 3000 via assigned transition, expect requested altitude within 10 minutes.

PAINE TRANSITION (KIENO2.PAE): From over KIENO INT via PAE R-325 to PAE VOR/DME.

PENN COVE TRANSITION (KIENO2.CVV): From over KIENO INT via CVV R-354 to CVV VOR/DME.

VANCOUVER TRANSITION (KIENO2.YVR): From over KIENO INT via YVR R-117 to YVR VORTAC.

VICTORIA TRANSITION (KIENO2.YYJ): From over KIENO INT via YYJ R-075 to YYJ VOR/DME.

▼

For inoperative MALSR, increase LPV all Cats visibility to RVR 5000. Increase LNAV Cat D visibility to RVR 6000. For uncompensated

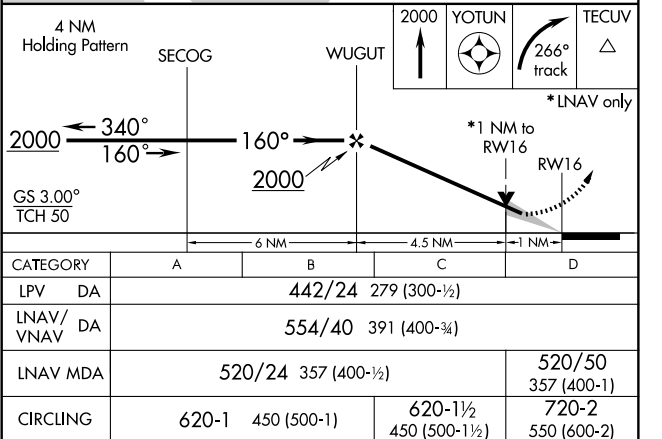
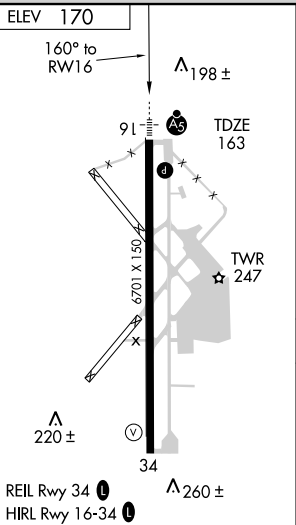
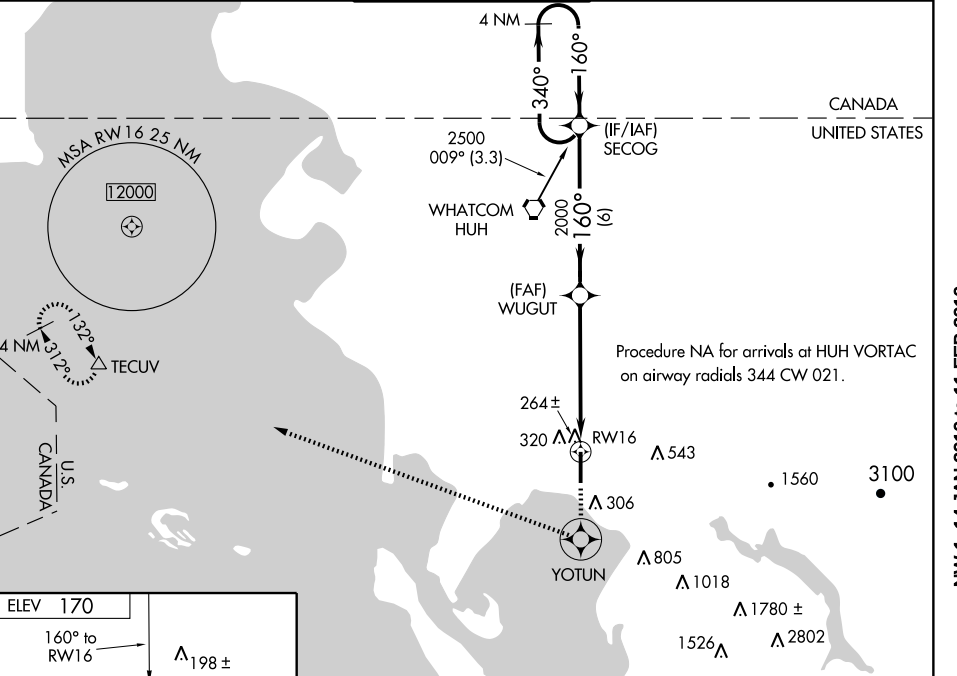
▲

Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA. Baro-VNAV and VDP NA when using Friday Harbor altimeter setting. If local altimeter setting not received, use Friday Harbor altimeter setting and increase all DA/MDAs 80 feet.

MALSR

MISSED APPROACH: Climb to 2000 direct YOTUN and right turn via 266° track to TECUV and hold.

ATIS	VICTORIA TERMINAL APP CON	BELLINGHAM TOWER★	GND CON	UNICOM
134.45	132.7 290.8	124.9 (CTAF) 0 379.3	127.4 379.3	122.95



WAAS	APP CRS	Rwy Idg	6701
CH 86223	340°	TDZE	170
W34A		Apt Elev	170

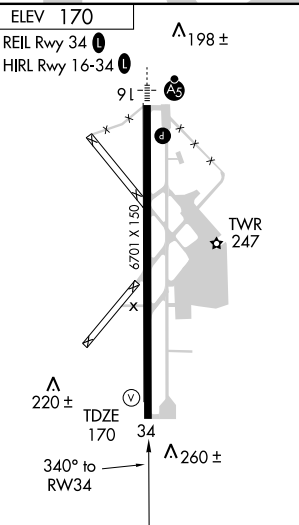
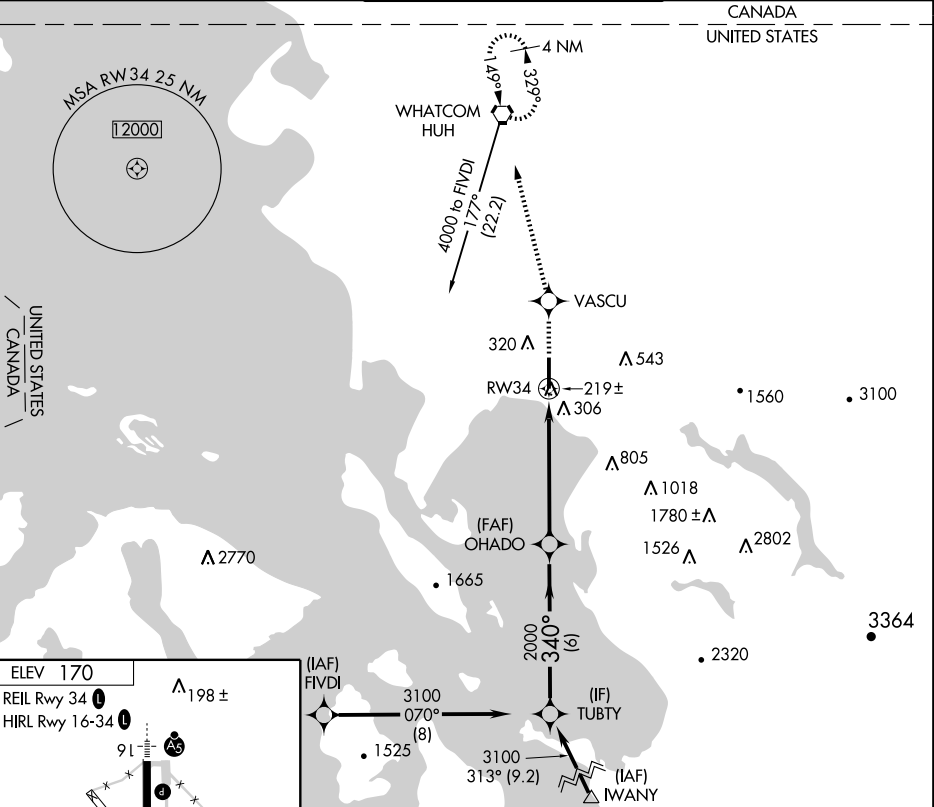
RNAV (GPS) RWY 34

BELLINGHAM INTL (BLI)

⚠ DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA
below -15°C (5°F) or above 48°C (118°F).

MISSED APPROACH: Climb to 3000 direct VASCU
and via 326° track to HUH VORTAC and hold,
continue climb-in-hold to 3000.

ATIS 134.45	VICTORIA TERMINAL APP CON 132.7 290.8	BELLINGHAM TOWER★ 124.9 (CTAF) 0 379.3	GND CON 127.4 379.3	UNICOM 122.95
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TUBTY				3000	VASCU	trk 326°	HUH
3100	Procedure Turn NA		OHADO	340°			
	2000						
	6 NM		5.5 NM				
GS 3.00° TCH 50							
CATEGORY	A		B	C	D		
LPV DA	439-1		269 (300-1)				
LNAV/ VNAV DA	592-1½		422 (500-1½)				
LNAV MDA	560-1		390 (400-1)				560-1¼ 390 (400-1¼)
CIRCLING	620-1		450 (500-1)		620-1½ 450 (500-1½)		720-2 550 (600-2)

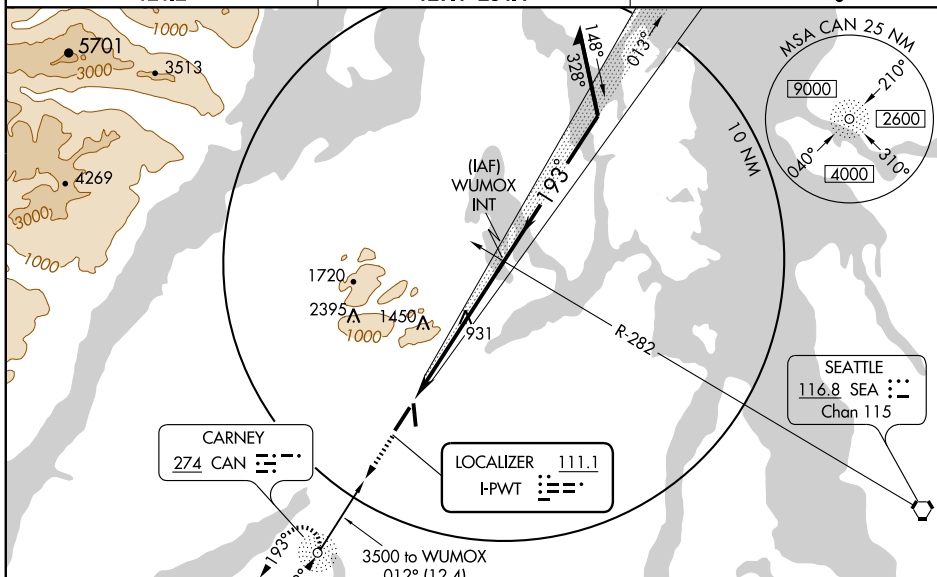
ILS or LOC RWY 19
BREMERTON NATIONAL (PWT)

MALSR

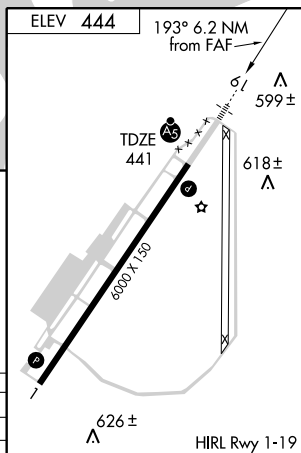
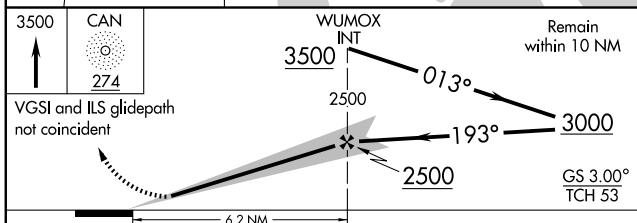
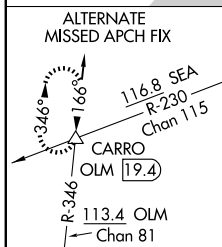
A5

MISSED APPROACH: Climb to 3500 direct CAN NDB and hold, continue climb-in-hold to 3500.

SEATTLE APP CON
127.1 254.4

UNICOM
123.05 (CTAF) **L**

ADF REQUIRED



CATEGORY	A	B	C	D
S-ILS 19	645-½ 204 (300-½)			
S-LOC 19	1200-½ 759 (800-½)	1200-¾ 759 (800-¾)	1200-1¾ 759 (800-1¾)	1200-2 759 (800-2)
CIRCLING	1200-1 756 (800-1)	1200-1¼ 756 (800-1¼)	1200-2 ¼ 756 (800-2 ¼)	1200-2 ½ 756 (800-2 ½)

FAF to MAP 6.2 NM					
Knots	60	90	120	150	180
Min:Sec	6:12	4:08	3:06	2:29	2:04

NDB PWT	APP CRS	Rwy Idg	6000
<u>206</u>	020°	TDZE	439
		Apt Elev	439

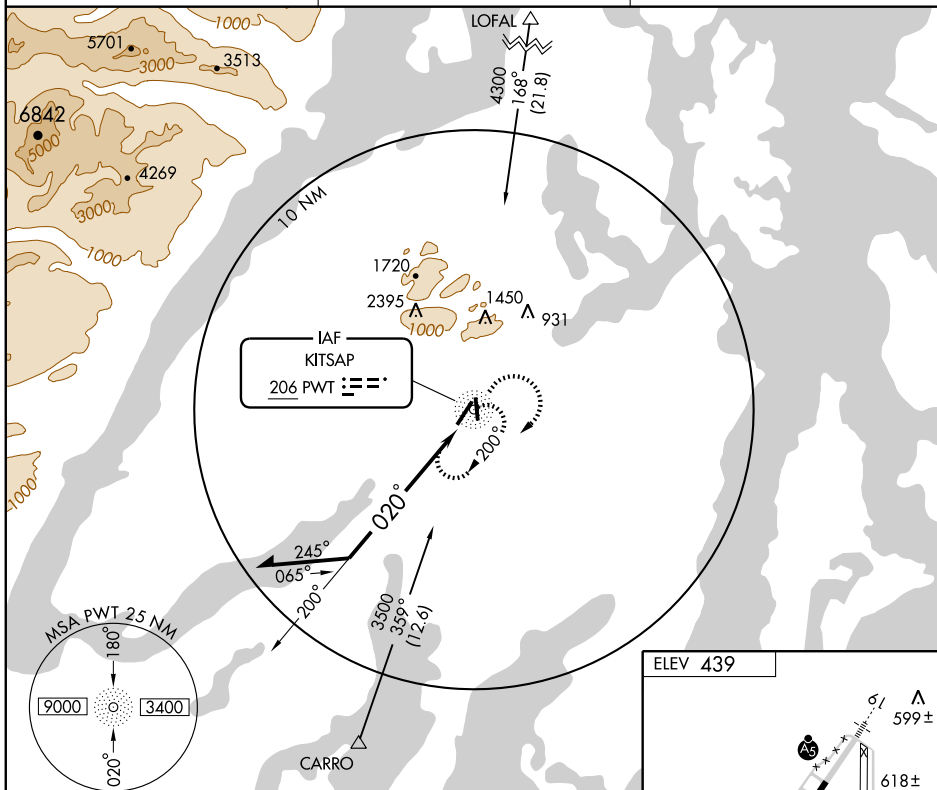
NDB RWY 1
BREMERTON NATIONAL (PWT)

T
A NA Circling NA west of Rwy 1-19 for Cat.D.

MISSED APPROACH: Climbing right turn to 3500 via 200° bearing from PWT NDB, then direct PWT NDB and hold.

AWOS-3
121.2

SEATTLE APP CON
127.1 254.4

UNICOM
123.05 (CTAF) **L**

Remain
within 10 NM

2000

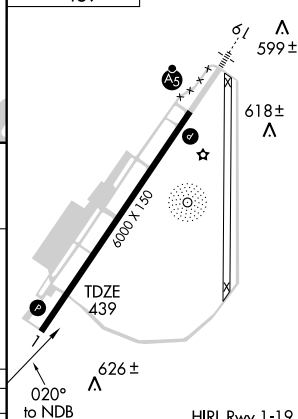
NDB
3500*

* Maintain 3500 or above until established outbound for Procedure Turn.

3500

PWT

ELEV 439



CATEGORY	A	B	C	D	020° Δ to NDB HIRL Rwy 1-19					
S-1	980-1 541 (600-1)		980-1½ 541 (600-1½)	980-1¾ 541 (600-1¾)						
CIRCLING	980-1 541 (600-1)		980-1½ 541 (600-1½)	1000-2 561 (600-2)	Knots	60	90	120	150	180
					Min:Sec					

APP CRS	Rwy Idg	6000
013°	TDZE	444
	Apt Elev	444

RNAV (GPS) RWY 1

BREMERTON NATIONAL (PWT)

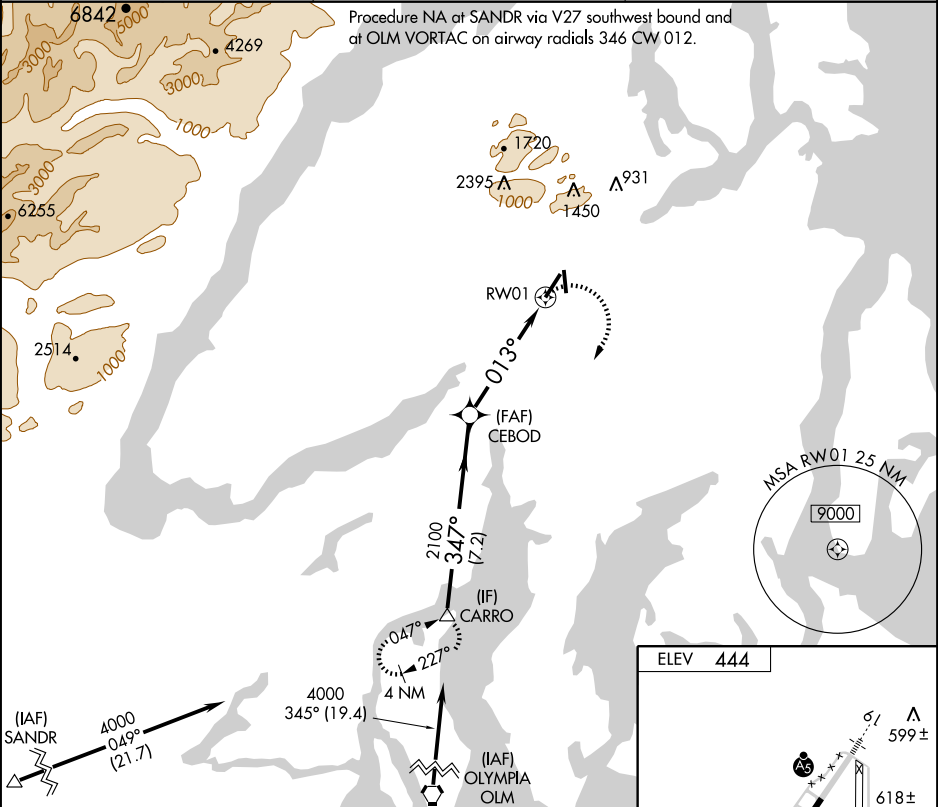
⚠ Circling NA for Cat. D west of Rwy 1-19.

⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

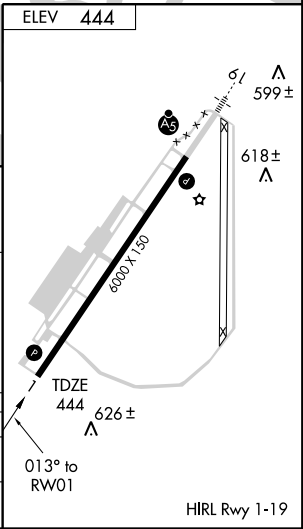
When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting and increase all MDAs 60 feet.

MISSED APPROACH: Climbing right turn to 4000 direct CARRO and hold, continue climb-in-hold to 4000.

AWOS-3 121.2	SEATTLE APP CON 127.1 254.4	UNICOM 123.05 (CTAF) 📻
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	CARRO		CEBOD		RWY01	
	4000		2100		2100	
	347°		013°		013°	
	7.2 NM		5 NM		5 NM	
CATEGORY	A		B		C	
LNAV MDA	880-1		436 (500-1)		880-1½	
					436 (500-1½)	
					940-1½	
					496 (500-1½)	
CIRCLING	940-1		496 (500-1)		1000-2	
					556 (600-2)	



RNAV (GPS) RWY 19

BREMERTON NATIONAL (PWT)

WAAS	APP CRS	Rwy Idg	6000
CH 61106	193°	TDZE	441
W19A		Apt Elev	444

⚠ Circling NA for Cat. D west of Rwy 1-19. DME/DME RNP-0.3 NA.
⚠ When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting and increase DA to 808 feet and all MDAs 60 feet, increase LPV visibility all Cats. 1/2 mile. Inoperative table does not apply to LNAV Cat. A and B. VDP NA when using Seattle-Tacoma Intl altimeter setting. For inoperative MALSR increase LPV visibility all Cats. 1/2 mile. Inoperative table does not apply to LNAV Cat. A and B.

MALSR
A5

MISSED APPROACH: Climb to 4000 direct CEBOD and via 167° track to CARRO and hold, continue climb-in-hold to 4000.

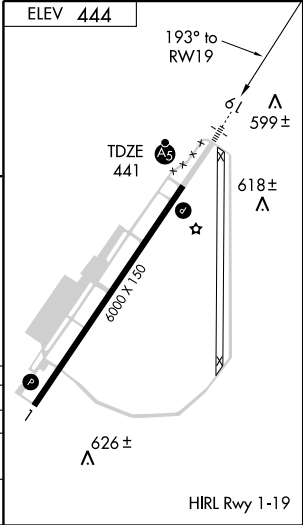
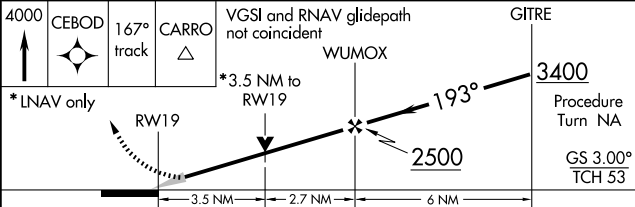
AWOS-3 121.2	SEATTLE APP CON 127.1 254.4	UNICOM 123.05 (CTAF) 0
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MISSED APCH FIX

047°
227°
4 NM

CARRO



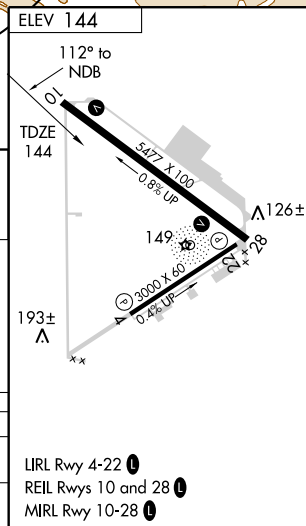
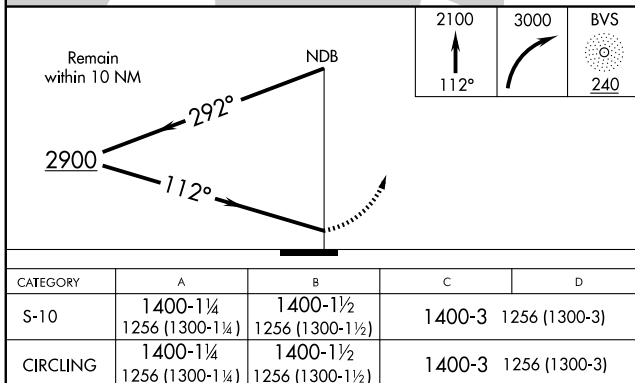
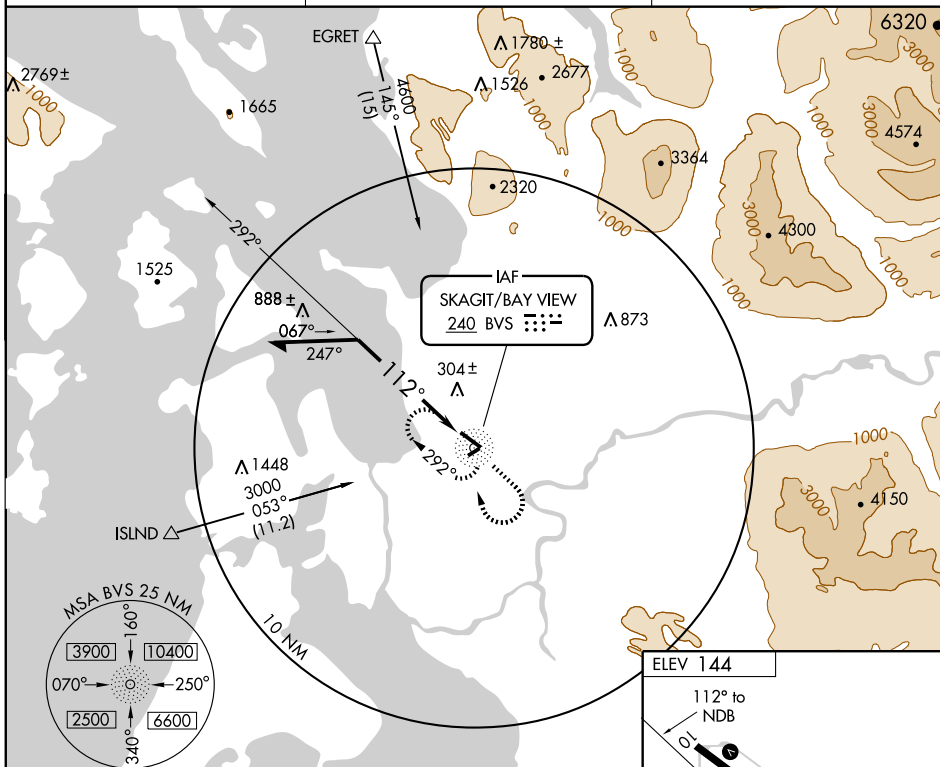
CATEGORY	A	B	C	D
LPV DA	763-1/2	322 (400-1/2)		
LNAV MDA	1600-1/4 1159 (1200-1/4)	1600-1/2 1159 (1200-1/2)	1600-2/2 1159 (1200-2/2)	
CIRCLING	1600-1/4 1156 (1200-1/4)	1600-1/2 1156 (1200-1/2)	1600-3 1156 (1200-3)	

NDB RWY 10
BURLINGTON/MOUNT VERNON/ SKAGIT RGNL (BVS)

MISSED APPROACH: Climb to 2100 via 112° bearing from BVS NDB then climbing right turn to 3000 direct BVS NDB and hold.

WHIDBEY APP CON ★
120.7 270.8

UNICOM
123.075 (CTAF) **L**



WAAS CH 53500 W10A	APP CRS 105°	Rwy Idg 5477 TDZE 144 Apt Elev 144
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RNAV (GPS) RWY 10

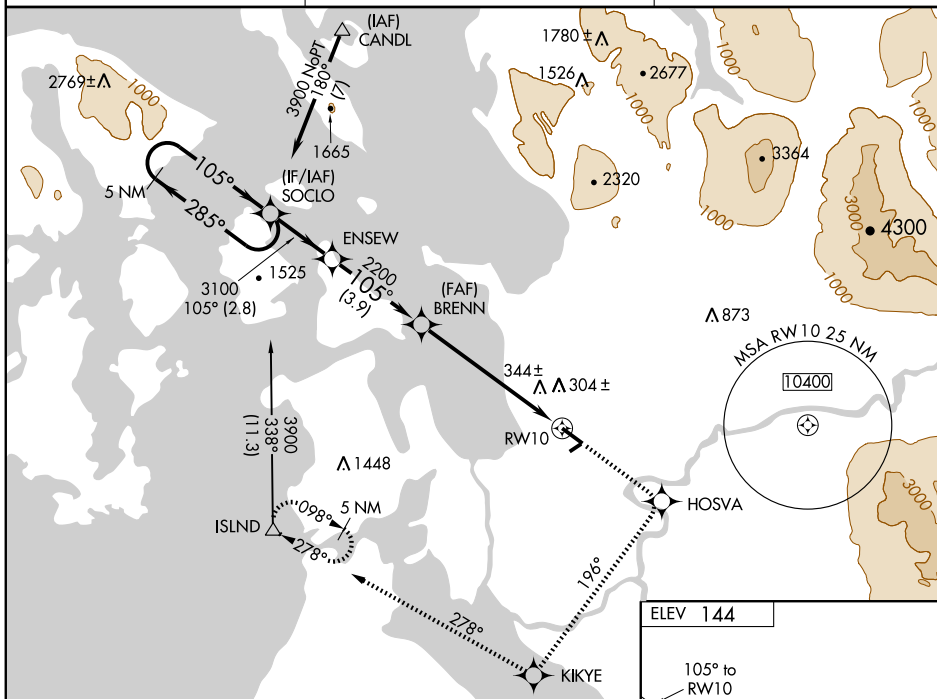
BURLINGTON/MOUNT VERNON/SKAGIT RGNL (BVS)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. Baro-VNAV NA when using Friday Harbor altimeter setting. When local altimeter setting not received, use Friday Harbor altimeter setting and increase all DA/MDA 80 feet, increase LPV and LNAV/VNAV all Cats, LNAV Cats C and D visibilities ¼ mile.

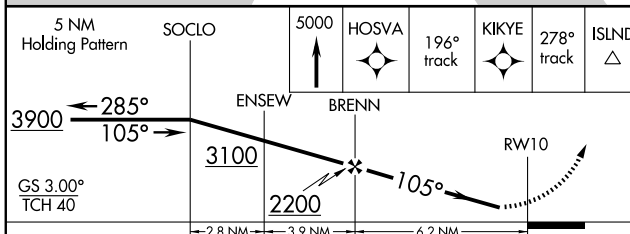
MISSED APPROACH: Climb to 5000 direct HOSVA and via 196° track to KIKYE and via 278° track to ISLND and hold, continue climb-in-hold to 5000

AWOS-3
121.125

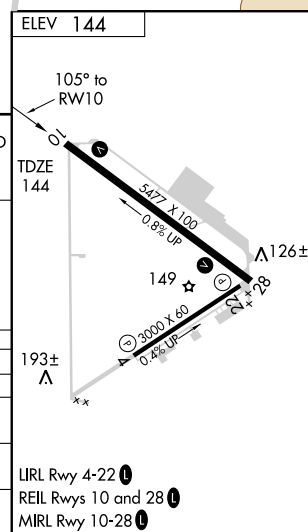
WHIDBEY APP CON ★
120.7 270.8

UNICOM
123.075 (CTAF) 

NW-1. 14 JAN 2010 to 11 FEB 2010



CATEGORY		A		B		C		D	
LPV	DA	497-1¼				353 (400-1¼)			
INAV/ VNAV	DA	640-1¾				496 (500-1¾)			
INAV	MDA	620-1 476 (500-1)				620-1¼ 476 (500-1¼)		620-1½ 476 (500-1½)	
CIRCLING		660-1 516 (600-1)				660-1½ 516 (600-1½)		700-2 556 (600-2)	

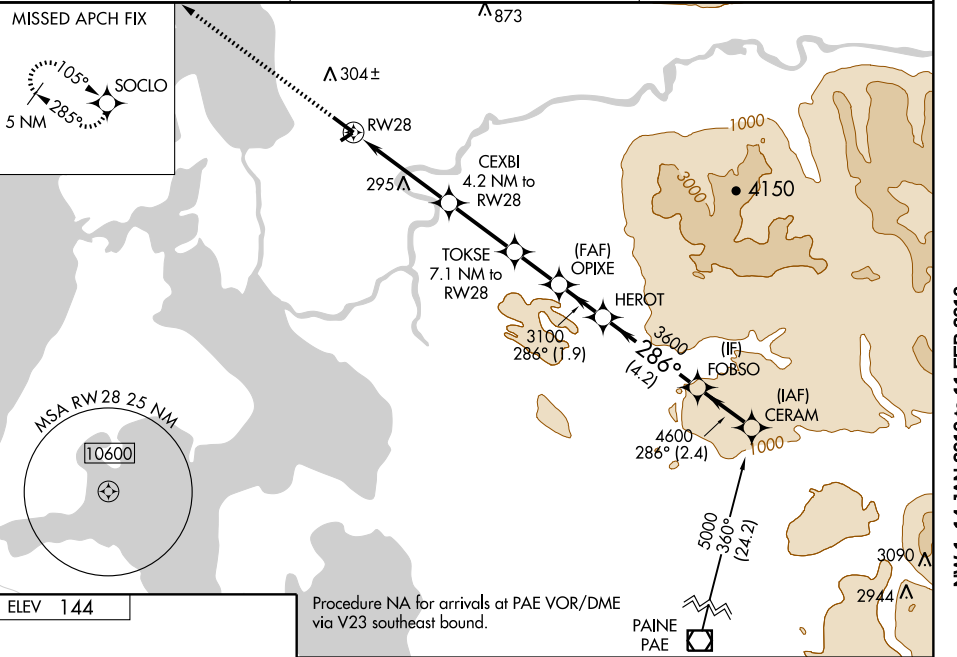


WAAS	APP CRS	Rwy Idg	5477
CH 70407	286°	TDZE	126
W28A		Apt Elev	144

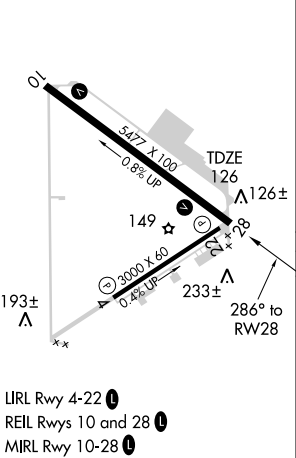
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. VDP and Baro-VNAV NA when using Friday Harbor altimeter setting. When local altimeter setting not received, use Friday Harbor altimeter setting and increase all DA/MDA 80 feet, increase LPV and LNAV/VNAV all Cats, LNAV Cats C and D visibilities ¼ mile.

MISSED APPROACH: Climb to 4000 direct SOCLO and hold, continue climb-in-hold to 4000.

AWOS-3 121.125	WHIDBEY APP CON* 120.7 270.8	UNICOM 123.075 (CTAF) 0
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ELEV 144



4000 SOCLO		VGSI and RNAV glidepath not coincident				FOBSO	
*LNAV only		TOKSE	OPIXE	HEROT			
*1.2 NM to RW28		CEXBI					
4.2 NM to RW28							
7.1 NM to RW28							
1.2		3 NM	2.9 NM	2 NM	1.9 NM	4.2 NM	
CATEGORY		A	B	C	D		
LPV DA		421-1¼		295 (300-1¼)			
LNAV/VNAV DA		503-1½		377 (400-1½)			
LNAV MDA		600-1	474 (500-1)	600-1½	600-1½	474 (500-1½)	
CIRCLING		660-1	516 (600-1)	660-1½	516 (600-1½)	700-2	556 (600-2)

NW-1. 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	5000
160°	TDZE	173
	Apt Elev	174

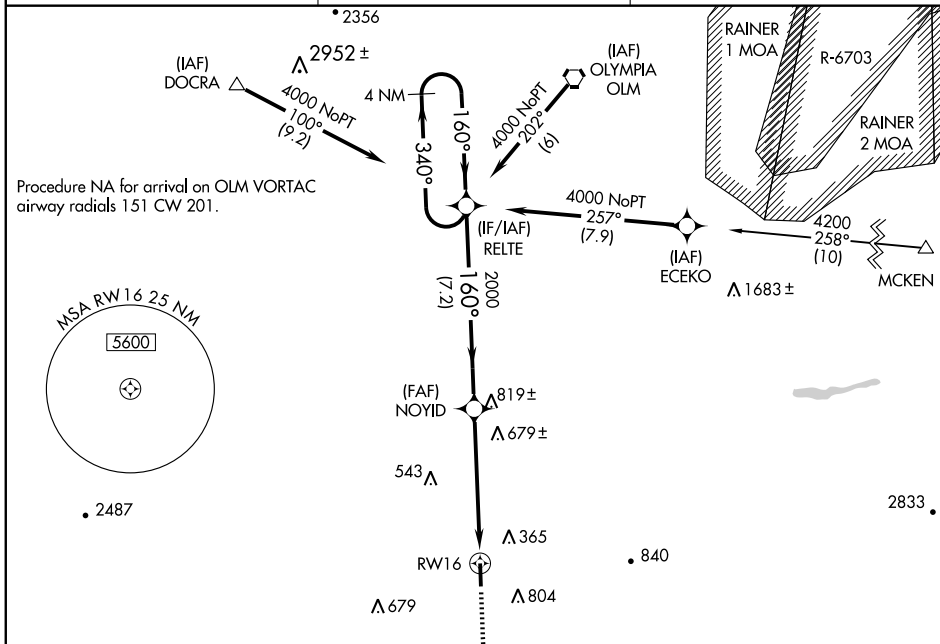
RNAV (GPS) RWY 16

CHEHALIS-CENTRALIA (CLS)

- V** DME/DME RNP-0.3 NA.
NA Circling NA northeast of Rwy 16-34.
 Circling NA at night.

MISSED APPROACH: Climb to 5000 direct JIVUT and right turn via 250° track to CETUV and hold, continue climb-in-hold to 5000.

AWOS-3 118.025	SEATTLE APP CON 121.1 391.9	UNICOM 122.8 (CTAF) 0
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ELEV 174 160° to RWY 16 TDZE 173 91 5000 x 150 34 REIL Rwy 16-34 MRL Rwy 16-34				
CATEGORY	A	B	C	D
LNAV MDA	980-1 807 (900-1)	980-1¼ 807 (900-1¼)	980-2¼ 807 (900-2¼)	980-2½ 807 (900-2½)
CIRCLING	980-1 806 (900-1)	980-1¼ 806 (900-1¼)	1080-2¾ 906 (1000-2¾)	1140-3 966 (1000-3)

NDB DPY
216

APP CR
323°

Rwy Idg	TDZE	Apt Elev
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100
21	100	100
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27	100	100
28	100	100
29	100	100
30	100	100
31	100	100
32	100	100
33	100	100
34	100	100
35	100	100
36	100	100
37	100	100
38	100	100
39	100	100
40	100	100
41	100	100
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84	100	100
85	100	100
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87	100	100
88	100	100
89	100	100
90	100	100
91	100	100
92	100	100
93	100	100
94	100	100
95	100	100
96	100	100
97	100	100
98	100	100
99	100	100
100	100	100

N/A
N/A
2211

NDB-A
DEER PARK (DEW)

T Circling NA west of Rwy 16-34.

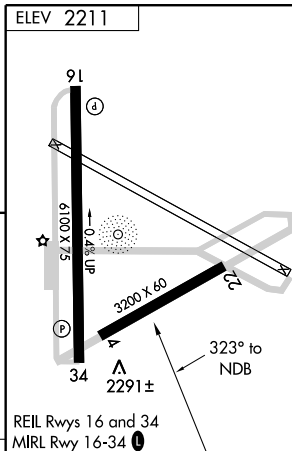
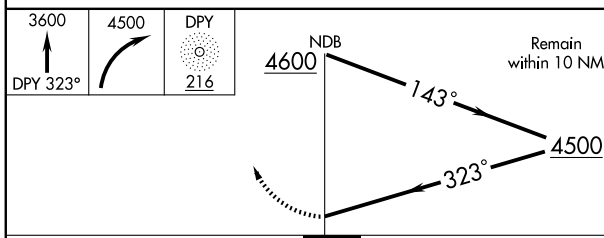
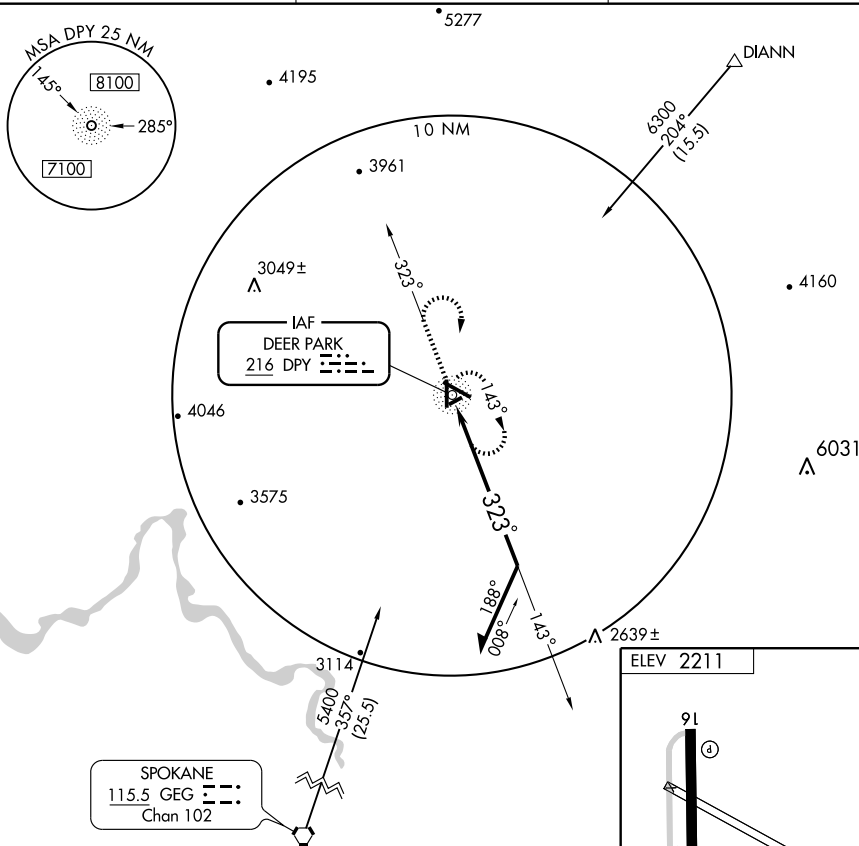
ANA When local altimeter setting not received, use Spokane Intl altimeter setting and increase all MDAs 80 feet and all visibilities ¼ mile.

MISSED APPROACH: Climb to 3600 via 323° bearing from DPY NDB then climbing right turn to 4500 direct DPY NDB and hold.

ASOS
135.175

SPOKANE APP CON
123.75 282.25

UNICOM
123.0 (CTAF) **L**



CATEGORY	A	B	C	D						
CIRCLING	3000-1 789 (800-1)	3000-1¼ 789 (800-1¼)	3000-2¼ 789 (800-2¼)	3000-2½ 789 (800-2½)	Knots	60	90	120	150	180
					Min:Sec					

WAAS
CH 61306
W34A

APP CRS
344°

Rwy Idg
TDZE
Apt Elev

6100
2201
2211

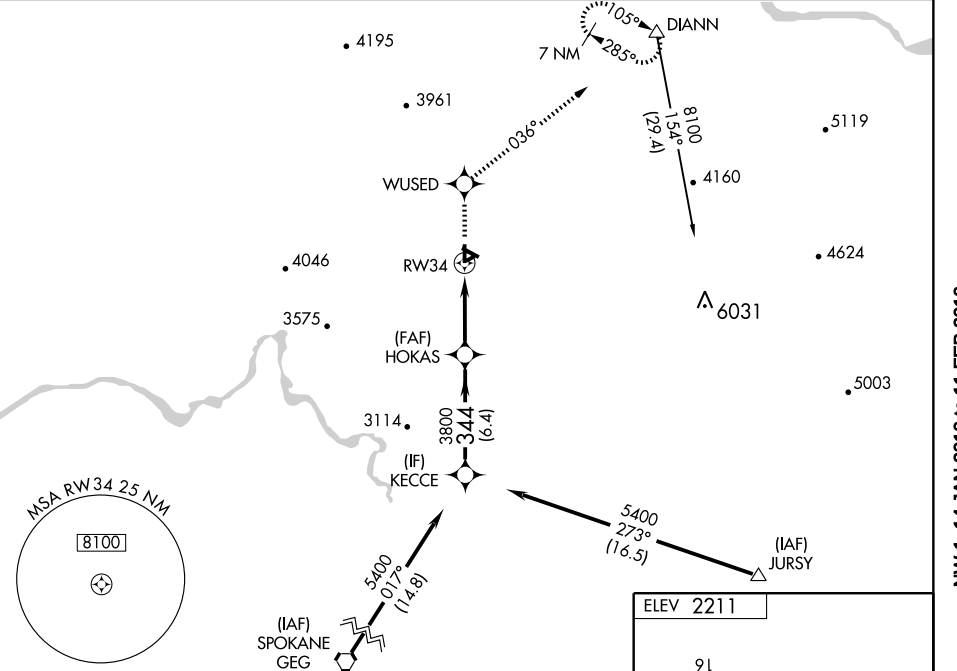
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
When local altimeter setting not received, use Spokane Intl altimeter setting and increase all DA/MDAs 80 feet and all visibilities ¼ mile.
Circling not authorized west of Rwy 16-34. DME/DME RNP- 0.3 NA.
VDP and Baro-VNAV NA when using Spokane Intl altimeter setting.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 8100 direct WUSED and via 036° track to DIANN and hold, continue climb-in- hold to 8100.

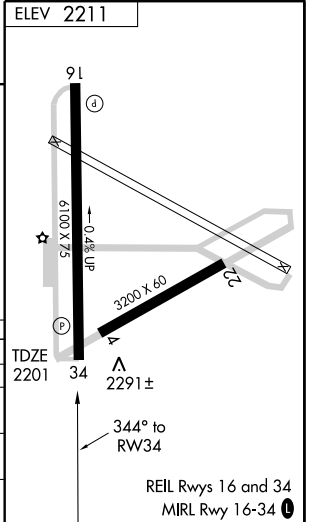
ASOS
135.175

SPOKANE APP CON
123.75 282.25

UNICOM
123.0 (CTAF) 0



8100	WUSED	036° track	DIANN	
↑	✧		△	
* LNAV only				
1.2 3.7 NM 6.4 NM 1.2 3.7 NM 6.4 NM				
CATEGORY	A	B	C	D
LPV DA		2466-1	265 (300-1)	
LNAV/VNAV DA		2551-1¼	350 (400-1¼)	
LNAV MDA		2600-1	399 (400-1)	2600-1¼ 399 (400-1¼)
CIRCLING	2700-1	489 (500-1)	2700-1½ 489 (500-1½)	2780-2 569 (600-2)



APP CRS	Rwy Idg	NA
343°	TDZE	NA
	Apt Elev	31

RNAV (GPS)-A

EASTSOUND/ORCAS ISLAND (ORS)

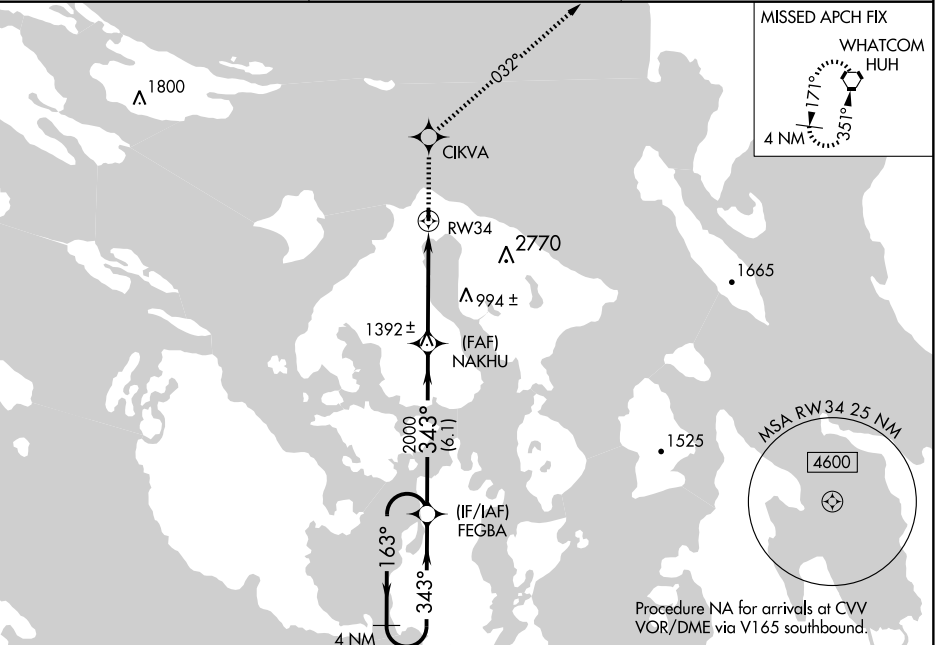
▼

▲

DME/DME RNP- 0.3 NA. Procedure NA at night.
When local altimeter setting not received, use Friday Harbor altimeter setting and increase MDA 40 feet.

MISSED APPROACH: Climb To 2000
direct CIKVA and via track 032°
to HUH VORTAC and hold.

AWOS-3 135.425	WIDBEY APP CON 118.2 285.65	CTAF 128.25
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ELEV 31

4 NM Holding Pattern

FEGBA

2000

CIKVA

trk 032°

HUH

3000

163°

343°

343°

NAKHU

4.14° TCH 40

RW34

2000

6.1 NM

4.4 NM

VGSI and descent angles not coincident.

CATEGORY	A	B	C	D
CIRCLING	1120 - 1¼ 1089 (1100-1¼)	1120 - 1½ 1089 (1100-1½)	NA	

MIRL Rwy 16-34

REIL Rwy 16 and 34

NW-1. 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	5590
267°	TDZE	1755
	Apt Elev	1764

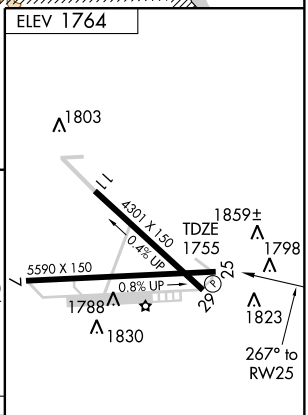
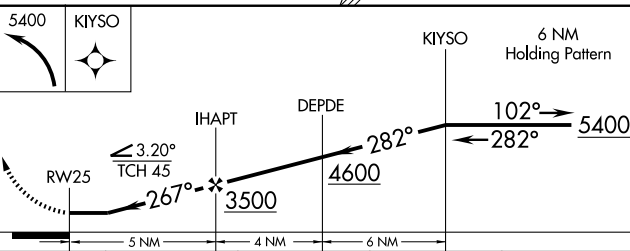
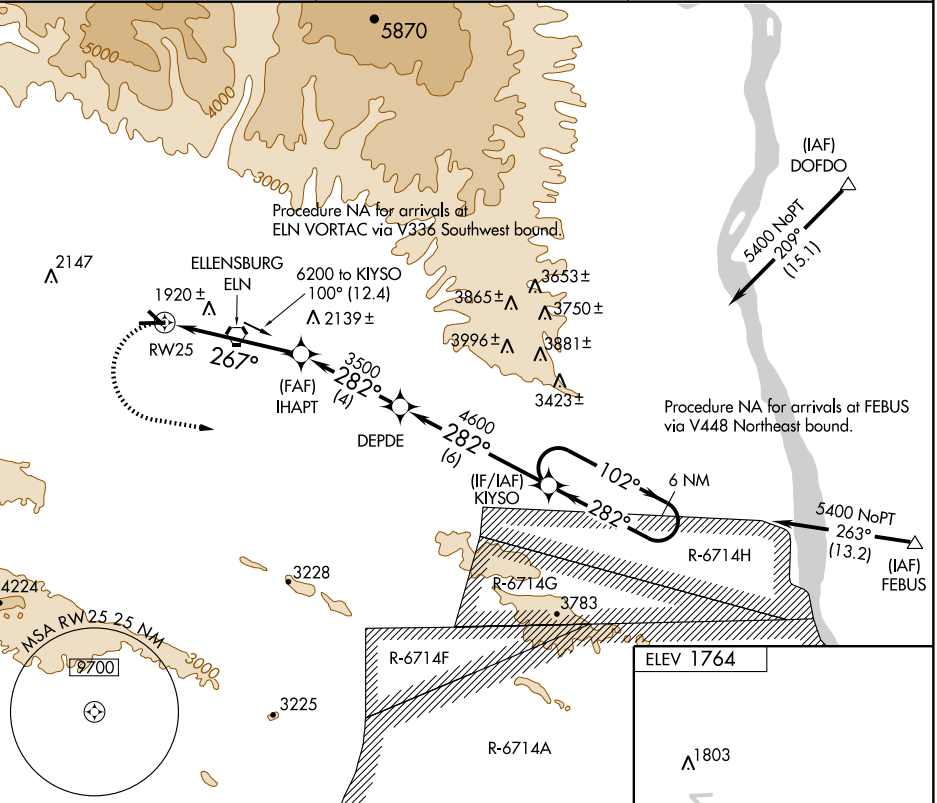
RNAV (GPS) RWY 25

ELLENSBURG/ BOWERS FIELD (ELN)

⚠ Straight-in minimums not authorized at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Procedure not authorized when R-6714A, F, G, H are in operation. When local altimeter setting not received, use Wenatchee altimeter setting and increase all MDA 140 feet and increase visibility LNAV Cat. B ¼ mile, Cats. C/D ½ mile, and increase circling visibility Cat. B ¼ mile, Cats. C/D ½ mile.

MISSED APPROACH:
Climbing left turn to 5400
direct KIYSO and hold.

ASOS 118.375	SEATTLE CENTER 132.6 269.35	UNICOM 123.0 (CTAF) ①
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CATEGORY	A	B	C	D
LNAV MDA	2360-1 605 (600-1)		2360-1¾ 605 (600-1¾)	2360-2 605 (600-2)
CIRCLING	2360-1 596 (600-1)		2360-1¾ 596 (600-1¾)	2500-2¼ 736 (800-2¼)

REIL Rwy 29
MIRL Rwy 11-29 ①

NW-1, 14 JAN 2010 to 11 FEB 2010

APP CRS
297°

Rwy Idg
TDZE
Apt Elev

4301
1759
1764

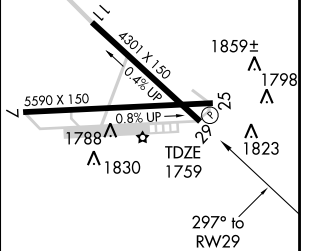
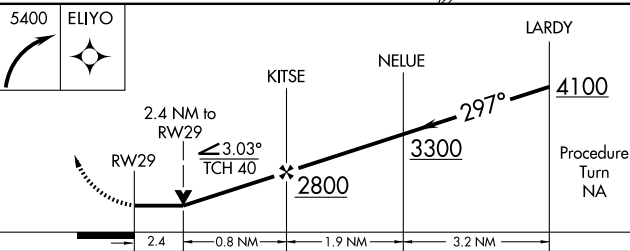
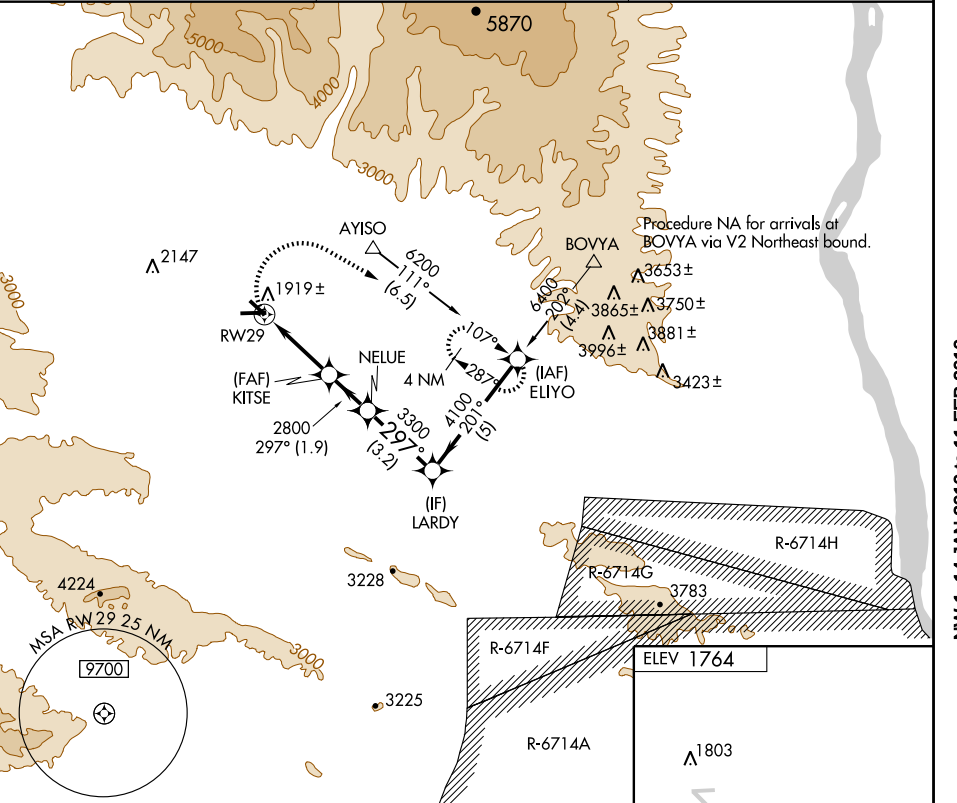
RNAV (GPS) RWY 29

ELLENSBURG/ BOWERS FIELD (ELN)

⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Wenatchee altimeter setting and increase all MDA 140 feet and increase visibility LNAV Cat. A and circling Cat. A ¼ mile. VDP NA when using Wenatchee altimeter setting.

MISSED APPROACH: Climbing right turn to 5400 direct ELIYO and hold, continue climb-in hold to 5400.

ASOS 118.375	SEATTLE CENTER 132.6 269.35	UNICOM 123.0 (CTAF) ①
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CATEGORY	A	B	C	D
LNAV MDA	2560-1 801 (800-1)	2560-1¼ 801 (800-1¼)	NA	
CIRCLING	2560-1 796 (800-1)	2560-1¼ 796 (800-1¼)	NA	

REIL Rwy 29

MIRL Rwy 11-29 **①**

VORTAC ELN 117.9 Chan 126	APP CRS 260°	Rwy Idg TDZE Apt Elev	N/A N/A 1764
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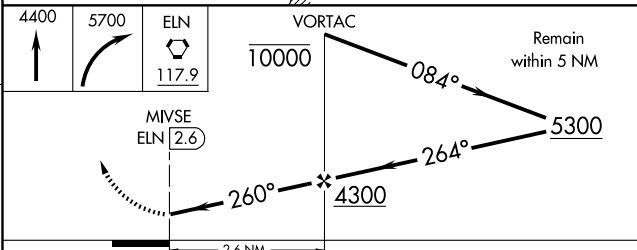
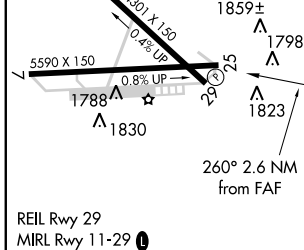
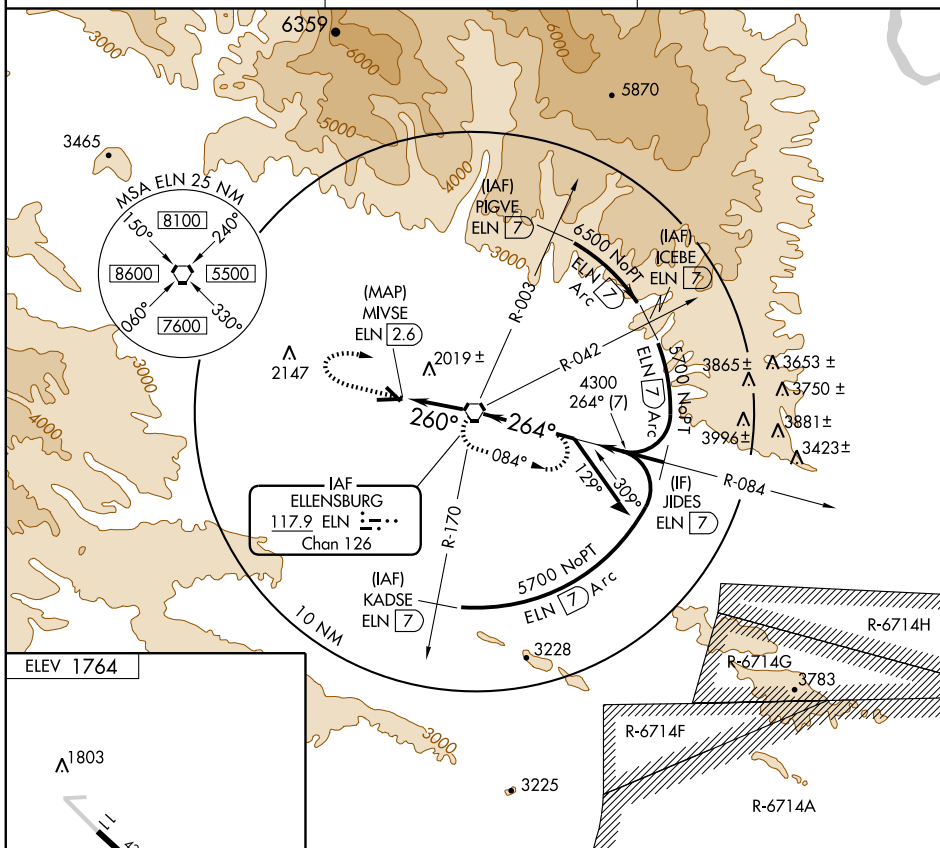
VOR-B
ELLENSBURG/ BOWERS FIELD (ELN)

T When local altimeter setting not received, use Wentachee
A altimeter setting.

MISSED APPROACH: Climb to 4400 then climbing right turn to 5700 direct to ELN VORTAC and hold, continue climb-in-hold to 5700.

ASOS
118.375

SEATTLE CENTER
132.6 269.35

UNICOM
123.0 (CTAF) **L**

FAF to MAP 2.6 NM					
Knots	60	90	120	150	180
Min:Sec	2:36	1:44	1:18	1:02	0:52

CATEGORY	A	B	C	D
CIRCLING	3260-1¼ 1496 (1500-1¼)	NA		

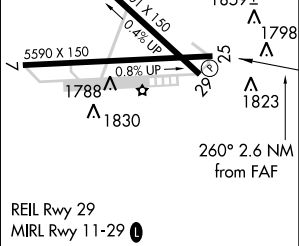
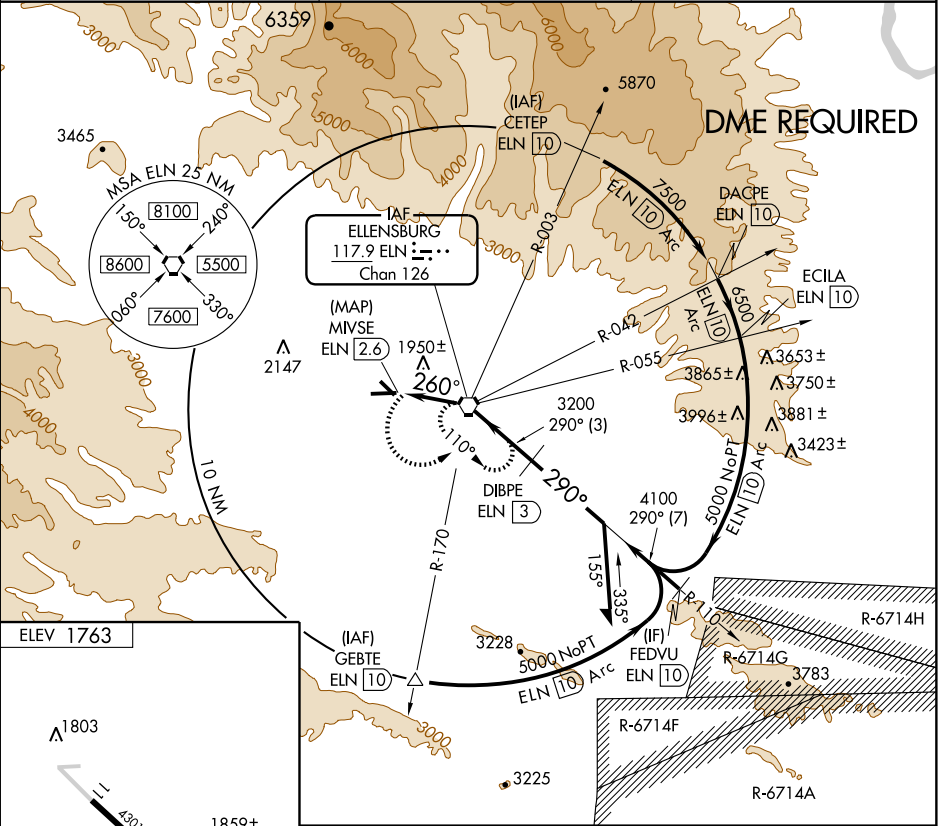
VORTAC ELN	APP CRS	Rwy Idg TDZE	N/A
117.9	260°		N/A
Chan 126		Apt Elev	1763

VOR/DME-A
ELLENSBURG/BOWERS FIELD (ELN)

⚠ If local altimeter setting not received, use Wenatchee altimeter setting and increase all MDAs 140 feet.
⚠ NA Procedure not authorized when R-6714A, F, G, H are in operation.

MISSED APPROACH: Climbing left turn to 5000 direct to ELN VORTAC and hold.

ASOS 118.375	SEATTLE CENTER 132.6 269.35	UNICOM 123.0 (CTAF) 0
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FAF to MAP 2.6 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	2280-1 517 (600-1)	2340-1 577 (600-1)	NA	
Min:Sec	2:36	1:44	1:18	1:02	0:52					

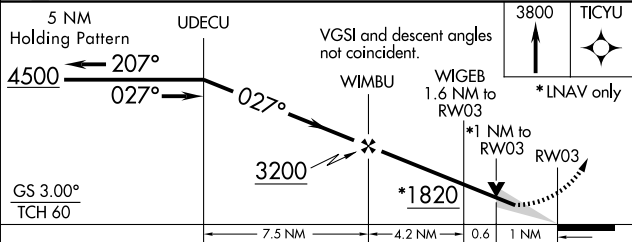
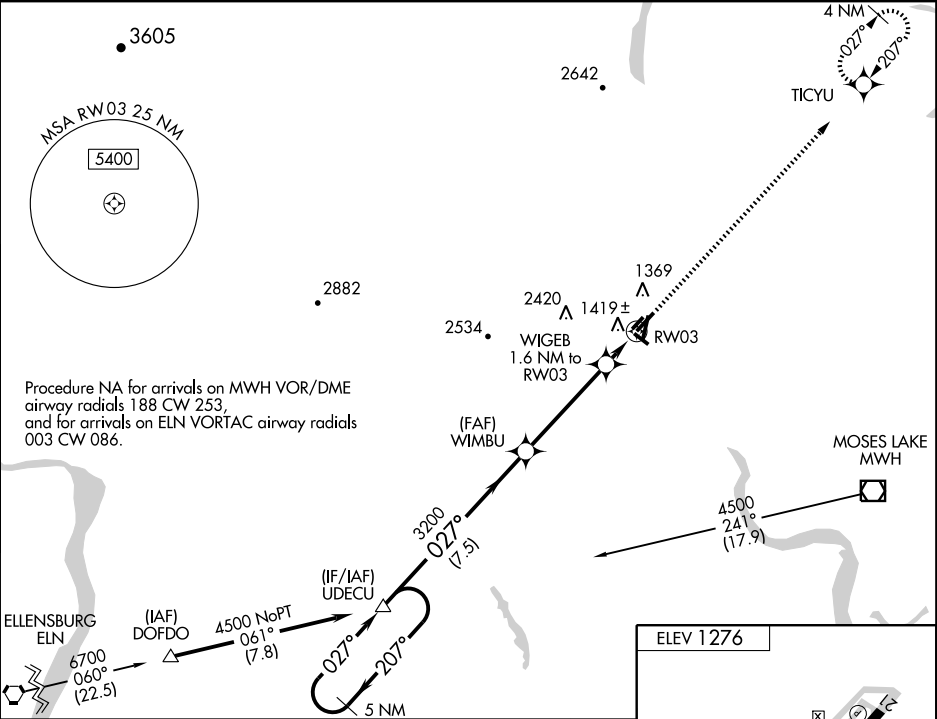
WAAS CH 50208 W03A	APP CRS 027°	Rwy Idg TDZE Apt Elev	5500 1269 1276
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RNAV (GPS) RWY 3
EPHRATA MUNI (EPH)

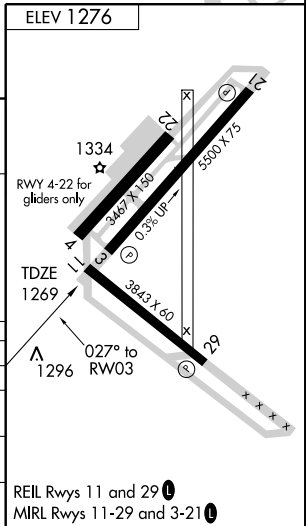
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA, VDP and Baro-VNAV NA when using Moses Lake/Grant County Intl altimeter setting. When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all DA/MDA 40 feet and LNAV Cat D visibility ¼ mile.

MISSED APPROACH: Climb to 3800 direct TICYU and hold.

ASOS 135.775	GRANT COUNTY APP CON ★ 126.4 379.95	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	1519-1	250 (300-1)		
LNAV/VNAV DA	1689-1½	420 (500-1½)		
LNAV MDA	1680-1 411 (500-1)	1680-1¼ 411 (500-1¼)		
CIRCLING	1720-1 444 (500-1)	1740-1 464 (500-1)	1780-1½ 504 (600-1½)	2500-3 1224 (1300-3)



REIL Rwy 11 and 29 0
MRL Rwy 11-29 and 3-21 0

WAAS CH 82308 W21A	APP CRS 207°	Rwy Idg TDZE Apt Elev	5500 1276 1276
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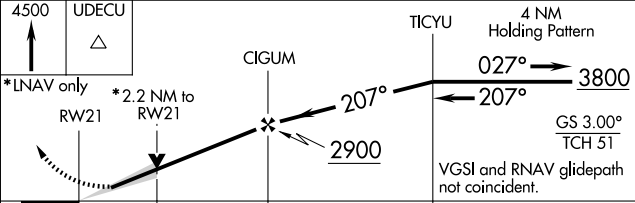
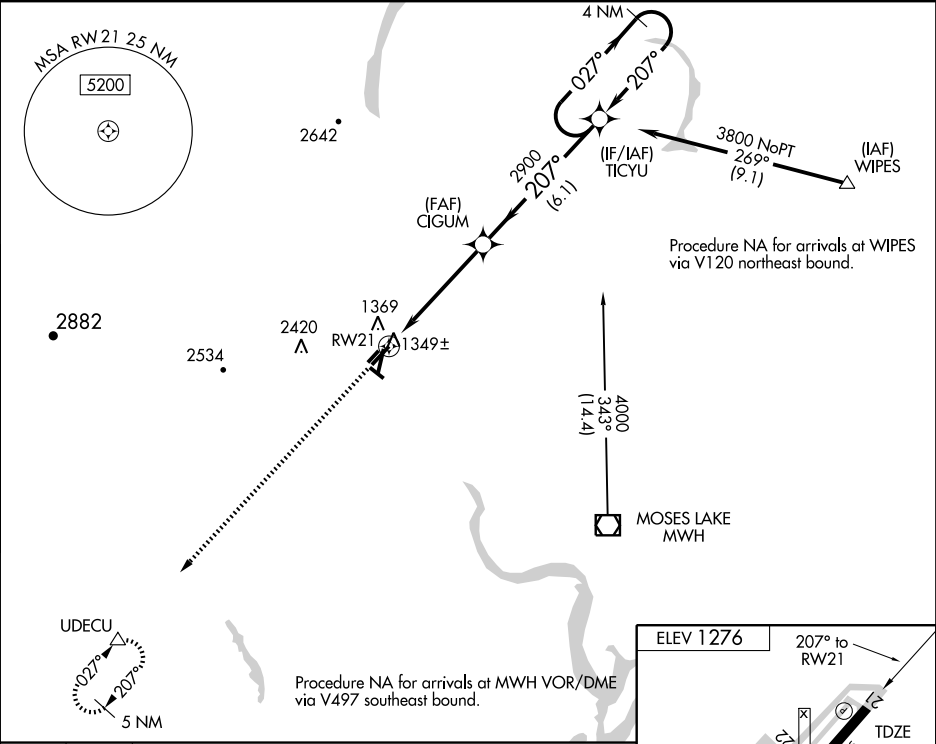
RNAV (GPS) RWY 21

EPHRATA MUNI (EPH)

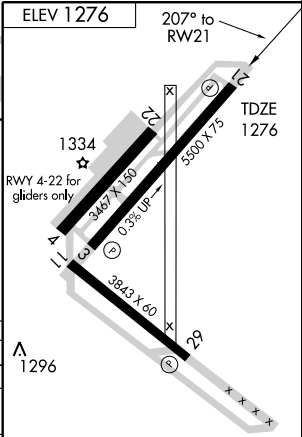
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. VDP and Baro-VNAV NA when using Moses Lake/Grant County Intl altimeter setting. When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all DA/MDA 40 feet; Increase visibility LPV all Cats., LNAV Cats. C and D and Circling Cat. C ¼ mile.

MISSED APPROACH: Climb to 4500 direct UDECU and hold.

ASOS 135.775	GRANT COUNTY APP CON ★ 126.4 379.95	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA		1526-3/4	250 (300-3/4)	
LNAV/VNAV DA		2171-4	895 (900-4)	
LNAV MDA	2020-1 744 (800-1)	2020-1 1/4 744 (800-1 1/4)	2020-2 1/4 744 (800-2 1/4)	2020-2 1/2 744 (800-2 1/2)
CIRCLING	2020-1 744 (800-1)	2020-1 1/4 744 (800-1 1/4)	2020-2 1/4 744 (800-2 1/4)	2500-3 1224 (1300-3)



REIL Rwy 11 and 29 0
MIRL Rwy 11-29 and 3-21 0

VORTAC EPH	APP CRS	Rwy Idg	5500
112.6	022°	TDZE	1269
Chan 73		Apt Elev	1276

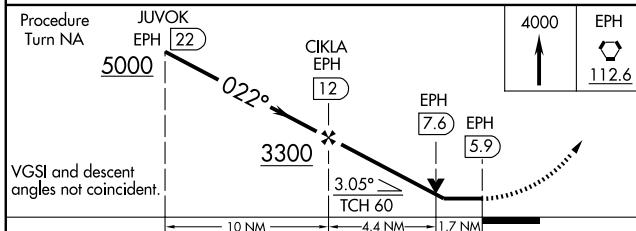
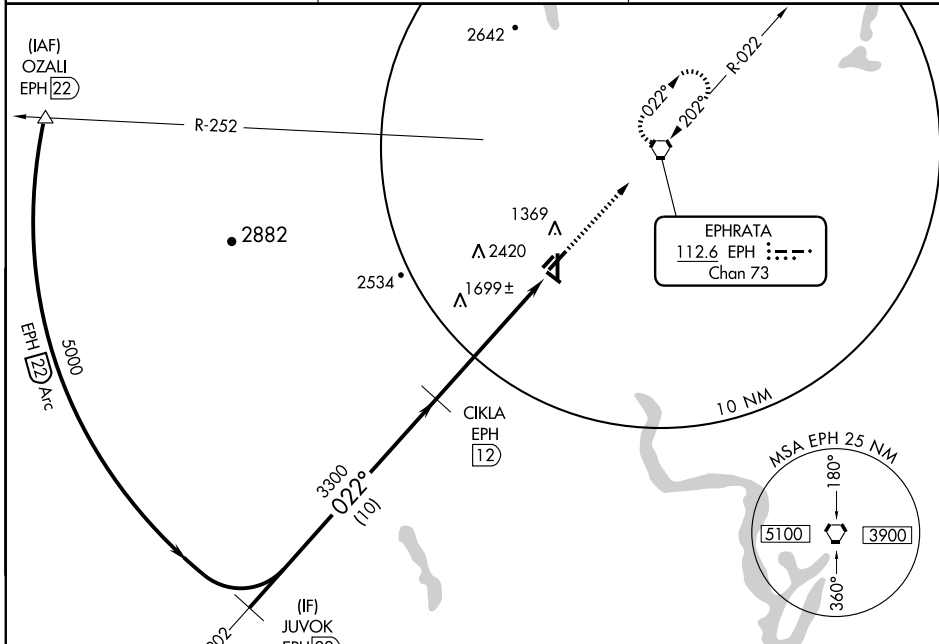
VOR/DME RWY 3

EPHRATA MUNI (EPH)

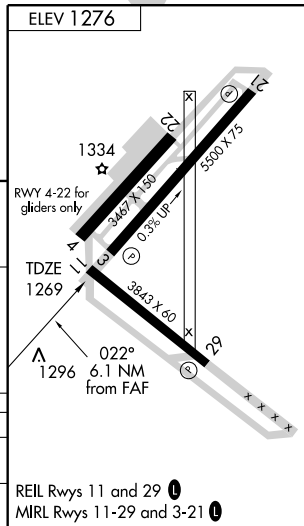
- When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all MDA 40 feet.
- VDP NA when using Moses Lake/Grant County Intl altimeter setting.

MISSED APPROACH: Climb to 4000 direct EPH VORTAC and hold, continue climb-in-hold to 4000.

ASOS 135.775	GRANT COUNTY APP CON ★ 126.4 379.95	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-3	1960-1	691 (700-1)	1960-2 691 (700-2)	1960-2 1/4 691 (700-2 1/4)
CIRCLING	1960-1	684 (700-1)	1960-2 684 (700-2)	2500-3 1224 (1300-3)



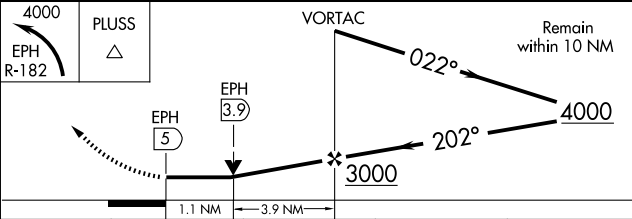
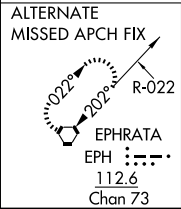
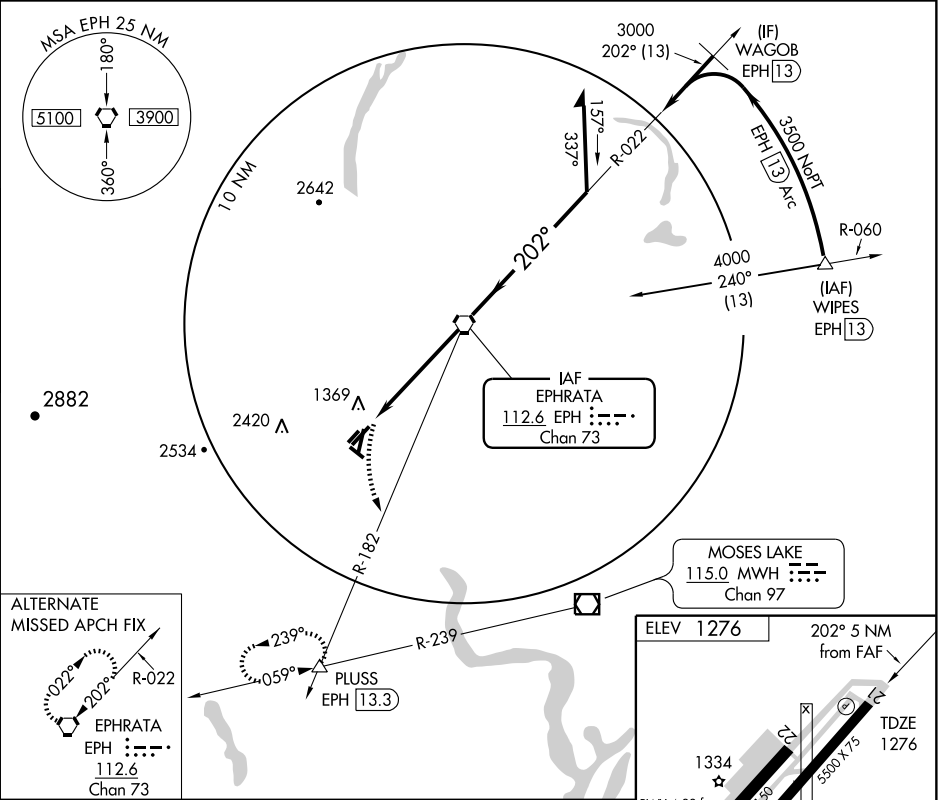
VOR RWY 21
EPHRATA MUNI (EPH)

VORTAC EPH	APP CRS	Rwy Idg	5500
112.6	202°	TDZE	1276
Chan 73		Apt Elev	1276

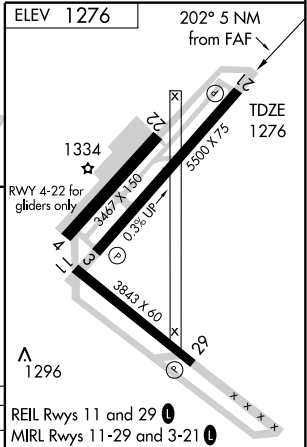
When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all MDA 40 feet, increase S-21 Cat D visibility 1/4 mile. VDP NA when using Moses Lake/Grant County Intl altimeter setting. Final approach from EPH VORTAC holding pattern not authorized. Procedure turn required.

MISSED APPROACH: Climbing left turn to 4000 via EPH R-182 to PLUS Int/EPH 13.3 DME and hold. Continue climb-in-hold to 4000.

ASOS 135.775	GRANT COUNTY APP CON★ 126.4 379.95	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
S-21	1680-1	404 (500-1)	1680-1 1/4	404 (500-1 1/4)
CIRCLING	1720-1 444 (500-1)	1740-1 464 (500-1)	1780-1 1/2 504 (600-1 1/2)	2500-3 1224 (1300-3)



REIL Rwy 11 and 29	1
MIRL Rwy 11-29 and 3-21	1
FAF to MAP 5 NM	
Knots	60 90 120 150 180
Min:Sec	5:00 3:20 2:30 2:00 1:40

AIRPORT DIAGRAM

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (P.A.E)
AL-142 (FAA) EVERETT, WASHINGTON

ATIS
128.65
PAINE TOWER★
120.2 256.7 (East of Rwy 16L-34R)
132.95 256.7 (West of Rwy 16R-34L)
GND CON
121.8 339.8
CLNC DEL
126.75

200 X 220
ELEV 563
K-1
161.2°

BOEING PLANT

BOEING RAMP

RWY 11-29

S30

RWY 16L-34R

S12.5

RWY 16R-34L

S100, D200, ST175, DT350, DDT830

47° 55'N



JANUARY 2005
ANNUAL RATE OF CHANGE
0.2° W

ELEV 561

HOT¹

TWR 787

CUSTOMS

NORTH RAMP

TERMINAL

ELEV 597

CENTRAL RAMP

3000 X 75

EAST RAMP

FIELD ELEV 606

WEST RAMP

SOUTH RAMP

FIRE STATION

ELEV 600

34L

341.2°

ELEV 578

400 X 220

A-8

A-9

HOT³

34R

ELEV 596

341.2°

HOT²

341.2°

341.2°

341.2°

341.2°

341.2°

341.2°

341.2°

341.2°

341.2°

341.2°

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

122° 18'W

122° 17'W

122° 16' W

NW-1. 14 JAN 2010 to 11 FEB 2010

LOC I-PAE <u>109.3</u>	APP CRS 159°	Rwy Idg TDZE Apt Elev	9010 570 606
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ILS or LOC/DME RWY 16R

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

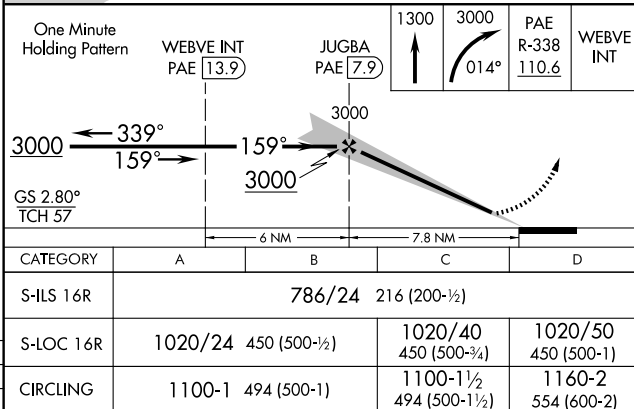
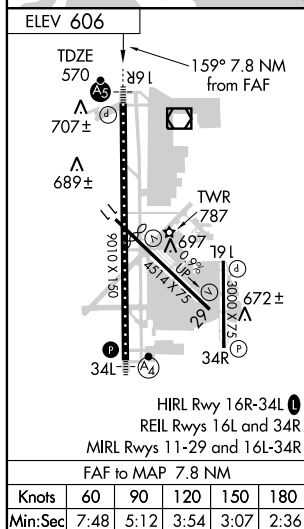
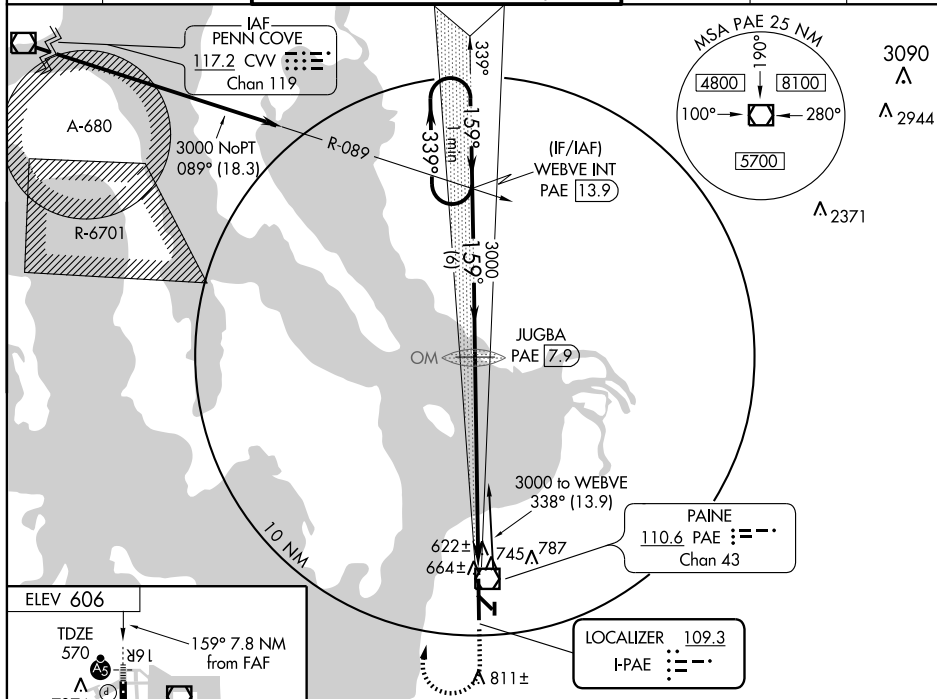
- ▼** DME from PAE VOR/DME. Simultaneous reception of I-PAE and PAE DME required. When local altimeter setting not received, use Seattle-Tacoma ILL altimeter setting: increase DA to 858 feet; increase all MDA 100 feet, increase S-LOC 16R Cat C visibility to RVR 5000, Cat D to RVR 6000. For inoperative MALSR when using Seattle-Tacoma ILL altimeter setting, increase S-ILS 16R all Cnts visibilities to RVR 5000.

MALSR



MISSED APPROACH: Climb to 1300 then climbing right turn to 3000 via heading 014° and PAE VOR/DME R-338 to WEBVE INT/PAE 13.9 DME and hold.

ATIS 128.65	SEATTLE CENTER 128.5 306.9	PAINE TOWER★ (E of Rwy 16L-34R) (W of Rwy 16R-34L) 120.2 256.7 132.95 (CTAF) 0 256.7		GND CON 121.8 339.8	CLNC DEL 126.75	UNICOM 122.95
----------------	-------------------------------	--	--	------------------------	--------------------	------------------



ATIS 128.65
 CLNC DEL
 126.75
 GND CON
 121.8 339.8
 PAINE TOWER ★
 120.2 256.7 (E of Rwy 16L-34R)
 132.95 (CTAF) 256.7 (W of Rwy 16R-34L)
 SEATTLE CENTER
 128.5 306.9

WHATCOM
 113.0 HUH
 Chan 77
 N48°56.72'-W122°34.76'
 L-1, H-1

WHIDBEY ISLAND
 Chan 85 NUW
 N48°21.30'-W122°39.71'
 L-1, H-1

PAINE
 110.6 PAE
 Chan 43
 N47°55.19'-W122°16.67'
 L-1, H-1

SEATTLE
 116.8 SEA
 Chan 115
 N47°26.12'-W122°18.58'
 L-1, H-1

WENATCHEE
 111.0 EAT
 Chan 47
 N47°23.98'-W120°12.65'
 L-13

McCHORD
 109.6 TCM
 Chan 33
 N47°08.86'-W122°28.50'
 L-1, H-1

ELLENSBURG
 117.9 ELN
 Chan 126
 N47°01.46'-W120°27.51'
 L-13, H-1

HOQUIAM
 117.7 HQM
 Chan 124
 N46°56.82'-W124°08.96'
 L-1, H-1

OLYMPIA
 113.4 OLM
 Chan 81
 N46°58.30'-W122°54.11'
 L-1, H-1

YAKIMA
 116.0 YKM
 Chan 107
 N46°34.22'-W120°26.68'
 L-13, H-1

NOTE: Chart not to scale.

NOTE: Center may assign initial heading to be flown and vector departures in all quadrants within 10 miles of the Paine Airport provided no altitude restrictions are imposed prior to reaching MVA.

DEPARTURE ROUTE DESCRIPTION

Fly Runway heading or as assigned; expect vectors to join assigned route.

Maintain assigned altitude; expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If not in contact with SEATTLE CENTER upon reaching 2000', continue climb to assigned altitude and proceed direct to PAE VOR/DME. Thence via assigned route.

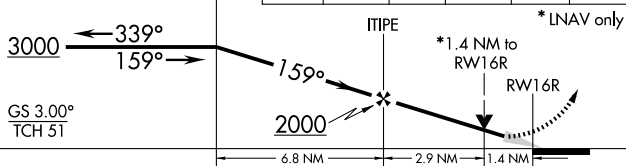
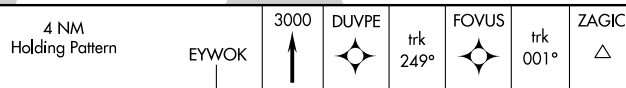
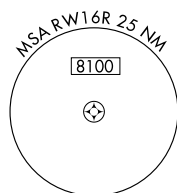
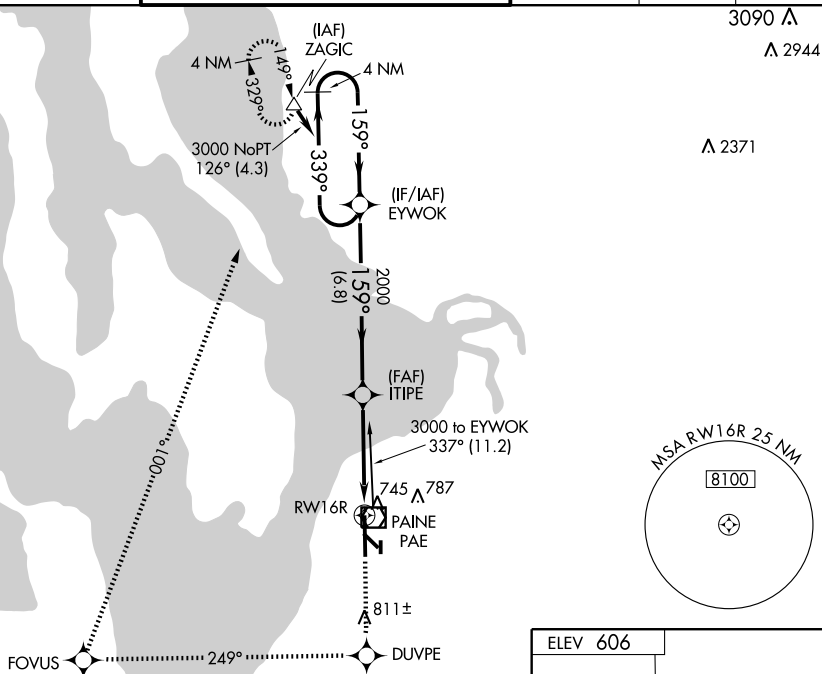
RNAV (GPS) RWY 16R

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

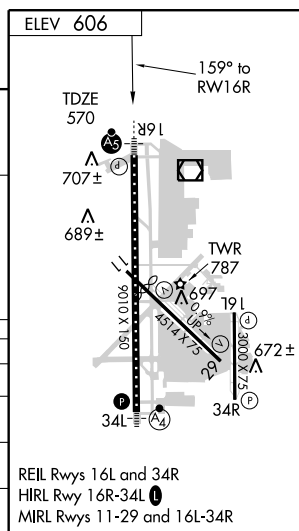
MALSR

MISSED APPROACH: Climb to 3000 direct DUVPE and via track 249° to FOVUS and via track 001° to ZAGIC and hold.

ATIS	SEATTLE CENTER	PAINÉ TOWER ★		GND CON	CLNC DEL	UNICOM
128.65	128.5 306.9	(E of Rwy 16L-34R)	(W of Rwy 16R-34L)			
		120.2 256.7	132.95 (CTAF) 256.7	121.8 339.8	126.75	122.95



CATEGORY	A	B	C	D
LPV DA	830/24 260 (300-½)			
LNAV/ VNAV DA	1045/60 475 (500-1¼)			
LNAV MDA	1060/24 490 (500-½)		1060/40 490 (500-¾)	1060/50 490 (500-1)
CIRCLING	1100-1 494 (500-1)		1100-1½ 494 (500-1½)	1180-2 574 (600-2)



WAAS CH 65611 W34A	APP CRS 339°	Rwy Idg TDZE Apt Elev	9010 579 606
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RNAV (GPS) RWY 34L

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (P.A.E.)



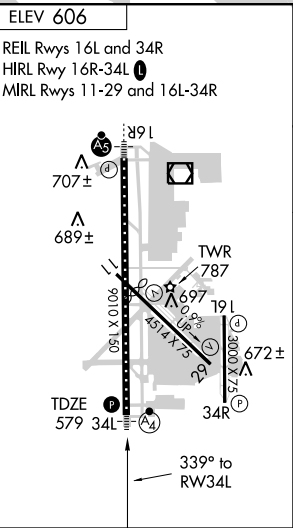
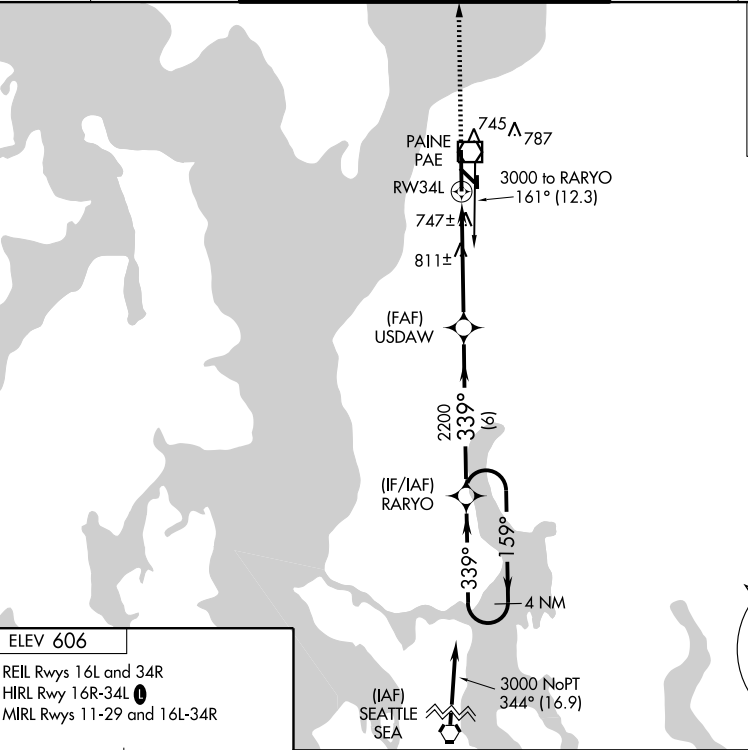
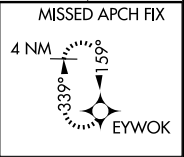
DME/DME RNP-0.3 NA.
Baro-VNAV NA below -16°C (4°F).
Inoperative table does not apply to LPV and LNAV/VNAV
all Cats and LNAV Cat C.

MALSF



MISSED APPROACH: Climb to 3000 direct
EYWOK and hold.

ATIS 128.65	SEATTLE CENTER 128.5 306.9	PAINE TOWER* (E of Rwy 16L-34R) (W of Rwy 16R-34L) 120.2 256.7 132.95 (CTAF) 256.7	GND CON 121.8 339.8	CLNC DEL 126.75	UNICOM 122.95
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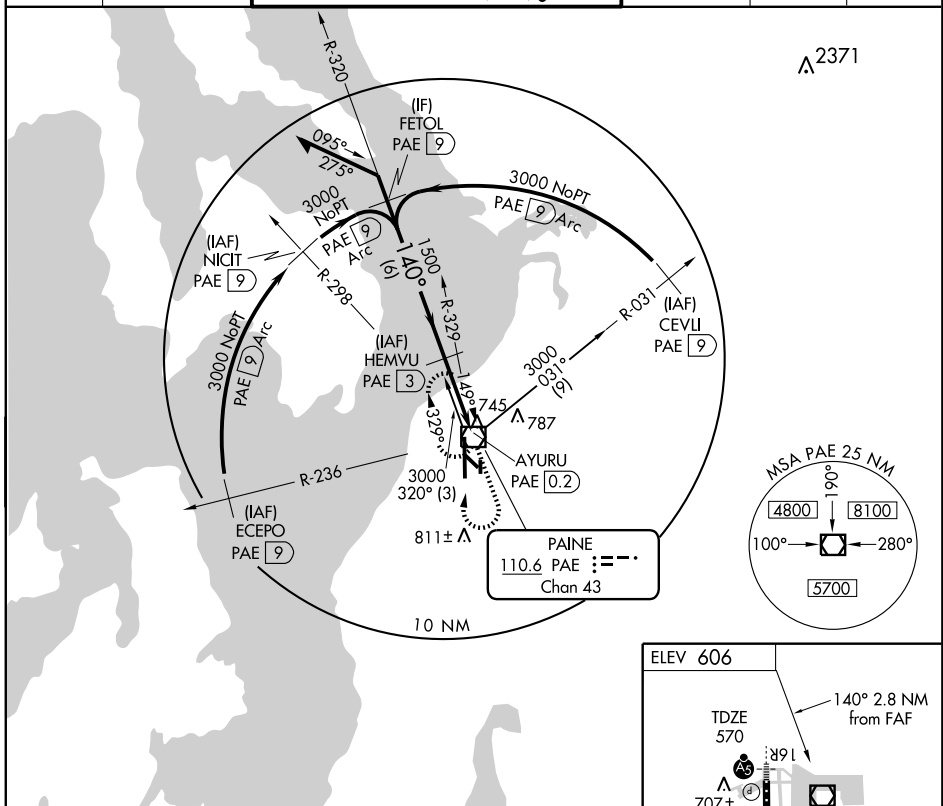


3000	EYWOK	VGSI and RNAV glidepath not coincident.	RARYO	4 NM Holding Pattern
*LNAV only *1.5 NM to RW34L				
USDAW				
RW34L				
1.5 3.4 NM 6 NM				
339°	2200	GS 3.00° TCH 51		
CATEGORY	A	B	C	D
LPV DA	920-1¼ 341 (400-1¼)			
LNAV/VNAV DA	1040-1½ 461 (500-1½)			
LNAV MDA	1140-¾ 561 (600-¾)		1140-1½ 561 (600-1½)	1140-1¾ 561 (600-1¾)
CIRCLING	1140-1½ 534 (600-1½)		1180-2 574 (600-2)	

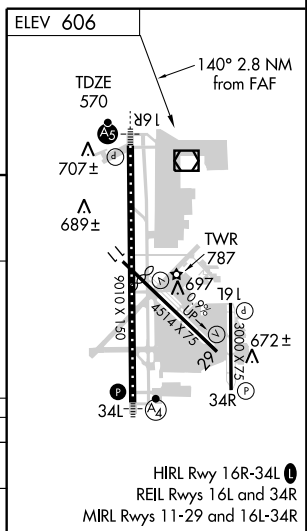
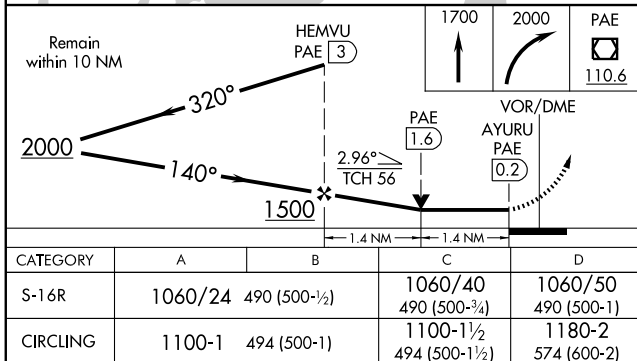
EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)



MISSED APPROACH: Climb to 1700 then climbing right turn to 2000 direct PAE VOR/DME and hold.

UNICOM
122.95

NW-1. 14 JAN 2010 to 11 FEB 2010



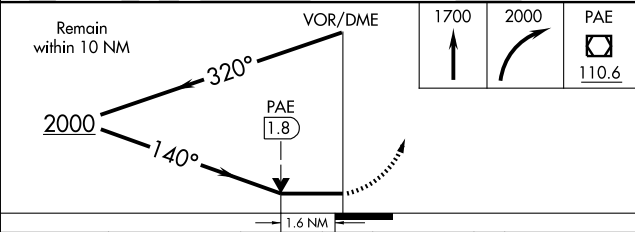
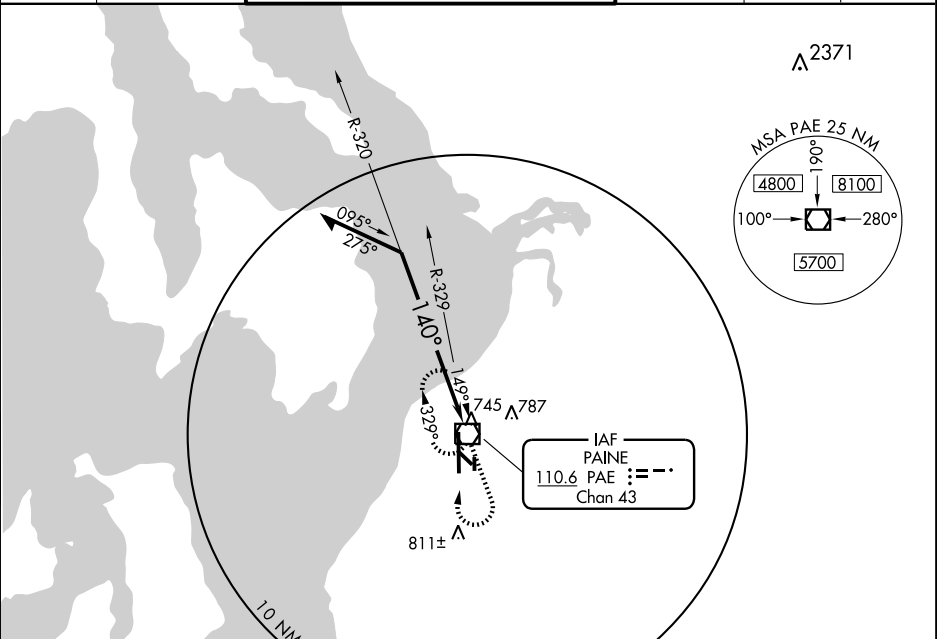
VOR/DME PAE	APP CRS	Rwy Idg	9010
110.6	140°	TDZE	570
Chan 43		Apt Elev	606

VOR RWY 16R

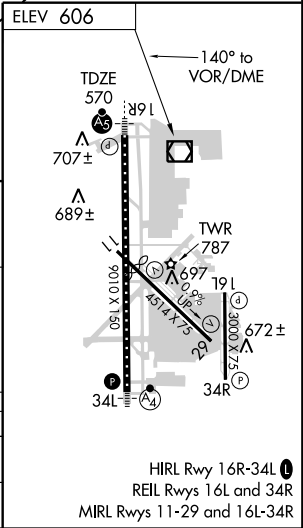
EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

▼	MALSRL	MISSED APPROACH: Climb to 1700 then climbing right turn to 2000 direct PAE VOR/DME and hold.
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ATIS	SEATTLE CENTER	PAINE TOWER★	GND CON	CLNC DEL	UNICOM
128.65	128.5 306.9	(E of Rwy 16L-34R) (W of Rwy 16R-34L)	121.8 339.8	126.75	122.95
		120.2 256.7 132.95 (CTAF) 256.7			



CATEGORY	A	B	C	D
S-16R	1100/24	530 (500-½)	1100/50 530 (500-1)	1100/60 530 (500-1¼)
CIRCLING	1100-1	494 (500-1)	1100-1½ 494 (500-1½)	1180-2 574 (600-2)



HIRL Rwy 16R-34L
REIL Rwy 16L and 34R
MIRL Rwy 11-29 and 16L-34R

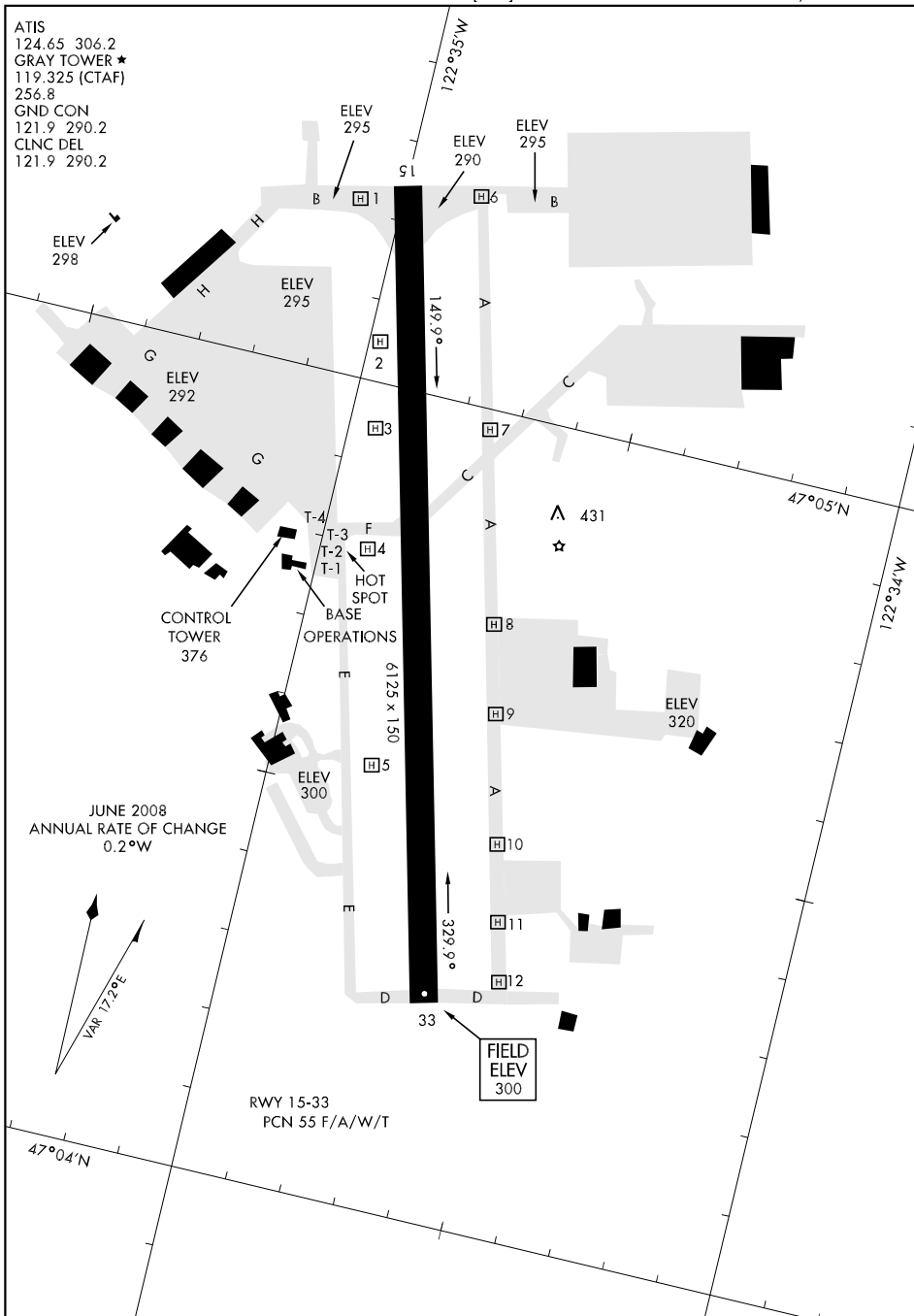
AIRPORT DIAGRAM

AFD-413 [USA]

FORT LEWIS, WASHINGTON

ATIS
124.65 306.2
GRAY TOWER ★
119.325 (CTAF)
256.8
GND CON
121.9 290.2
CLNC DEL
121.9 290.2

NW-1, 14 JAN 2010 to 11 FEB 2010



AIRPORT DIAGRAM

FORT LEWIS, WASHINGTON

LOM GR 216	APCH CRS 147°	Rwy Idg TDZE Arpt Elev 6125 299 300
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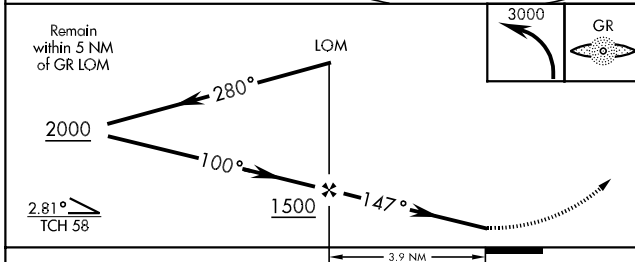
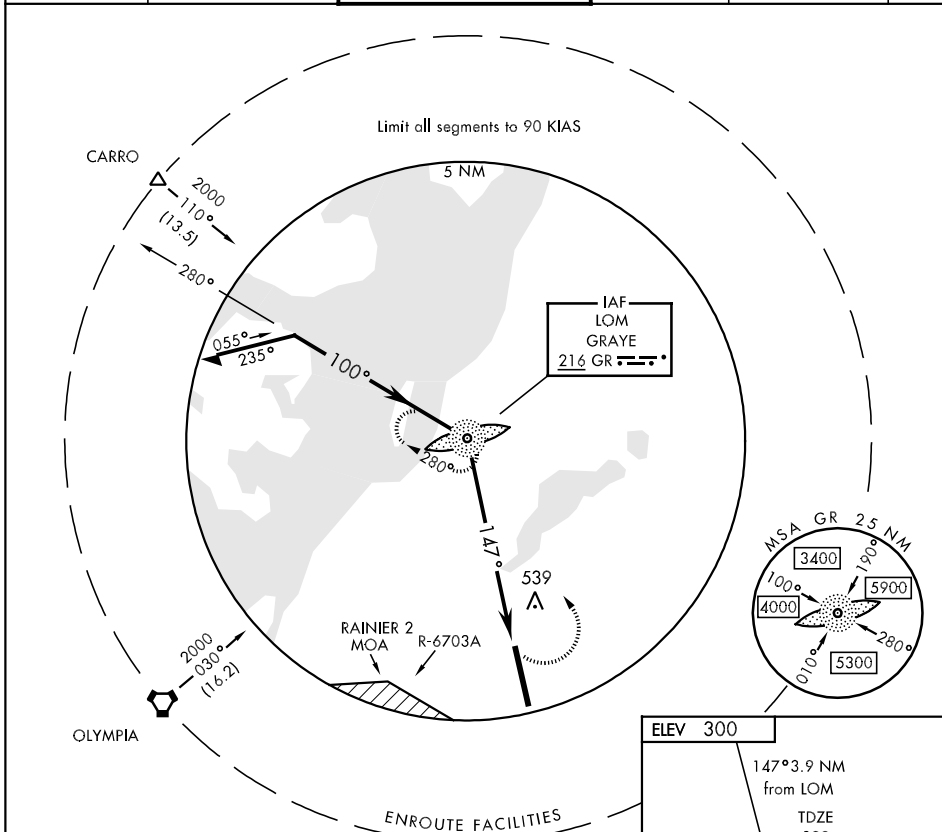
AL-413 [USA]

GRAY AAF (KGRF)

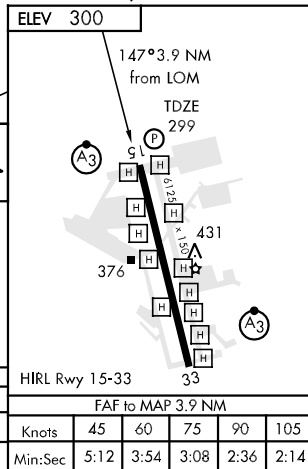


MISSED APPROACH: Climbing left turn to 3000 direct GR LOM and hold.

ATIS 124.65 306.2	SEATTLE APP CON 120.1 290.9	GRAY TOWER ★ 119.325 (CTAF) 256.8	GND CON 121.9 290.2	CLNC DEL 121.9 290.2	PAR
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CATEGORY	COPTER
H-15	840/24 541 (600-½)
S-PAR 15	499/40 200 (200-¾) GS 3.0°



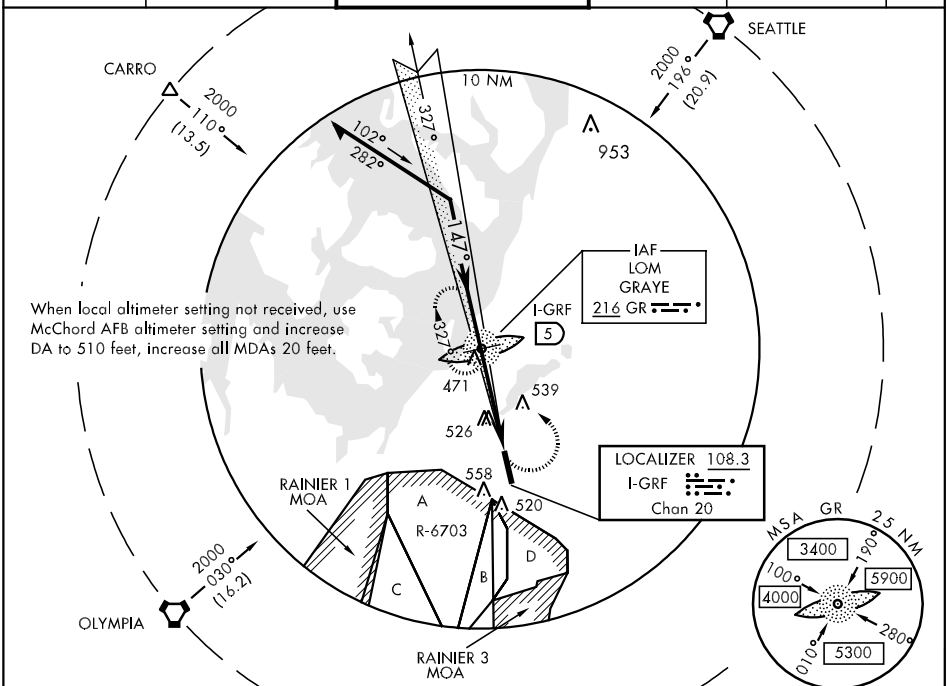
LOC I-GRF	APCH CRS	Rwy Idg	6125		
108.3	147°	TDZE	294	AL-413 [USA]	GRAY AAF (KGRF)
Chan 20		Arpt Elev	300		

T * When ALS inop, increase CAT AB vis by ¼ mile.
A ** When ALS inop, increase CAT D vis by ¼ mile.
 *** Circling not authorized W of Rwy 15-33.



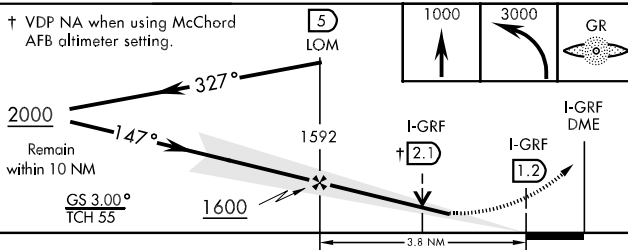
MISSED APPROACH: Climb to 1000, then climbing left turn to 3000 direct GR LOM and hold, continue climb-in-hold to 3000.

ATIS 124.65 306.2	SEATTLE APP CON 120.1 290.9	GRAY TOWER ★ 119.325 (CTAF) 256.8	GND CON 121.9 290.2	CLNC DEL 121.9 290.2	PAR
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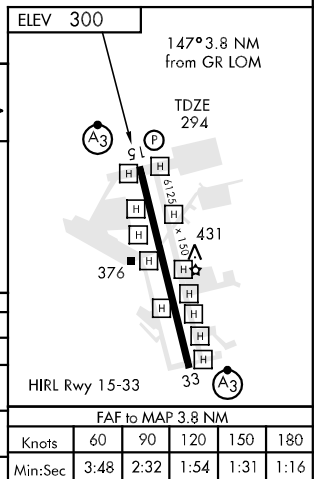


ADF REQUIRED

† VDP NA when using McChord AFB altimeter setting.



CATEGORY	A	B	C	D
S-LS 15 *	494/24	200 (200-½)	494/40	200 (200-¾)
S-LOC 15 **	660/40	366 (400-¾)		660/50 366 (400-1)
CIRCLING ***	780-1	480 (500-1)	780-1½ 480 (500-1½)	860-2 560 (600-2)
S-PAR 15	499/40	200 (200-¾)	GS 3.0°	



ATIS 124.65 306.2
CLNC DEL
121.9 290.2
GND CON
121.9 290.2
GRAY TOWER ★
119.325 (CTAF) 256.8
SEATTLE DEP CON
120.1 290.9

Rwy	Knots	60	120	180	240
15 (a)	V/V(fpm)	430	860	1290	1720
33 (b)	V/V(fpm)	380	760	1140	1520

ATC Climb Rate

(a) To 500'

(b) To 600'

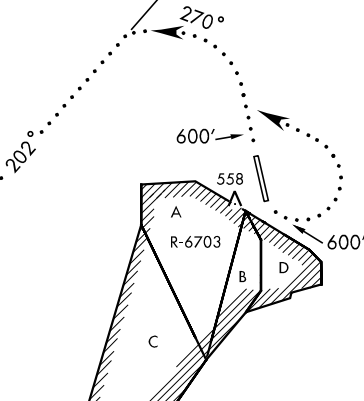


SEATTLE
116.8 SEA
Chan 115



MC CHORD
109.6 TCM
Chan 33

OLYMPIA
113.4 OLM
Chan 81
L-1



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15 AND 33:

Climb via runway heading to 600', then turn left (unless otherwise directed by ATC) heading 270 for vectors to assigned route. Maintain altitude as assigned by ATC. Expect filed altitude within five minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within three minutes after departure, continue climb to assigned altitude, intercept and proceed via SEA R-202 to OLM VORTAC, thence via assigned route.

LOM GR
216

APCH CR
147°

Rwy Idg	6125
TDZE	299
Arpt Elev	300

AL-413 [USA]

GRAY AAF (KGRF)



If local altimeter setting not received, use McChord AFB altimeter setting and increase all MDAs 20 feet.



* Circling not authorized W of Rwy 15-33.

SSALR



MISSED APPROACH: Climbing left turn to 3000 direct GR LOM and hold.

ATIS
124.65 306.2

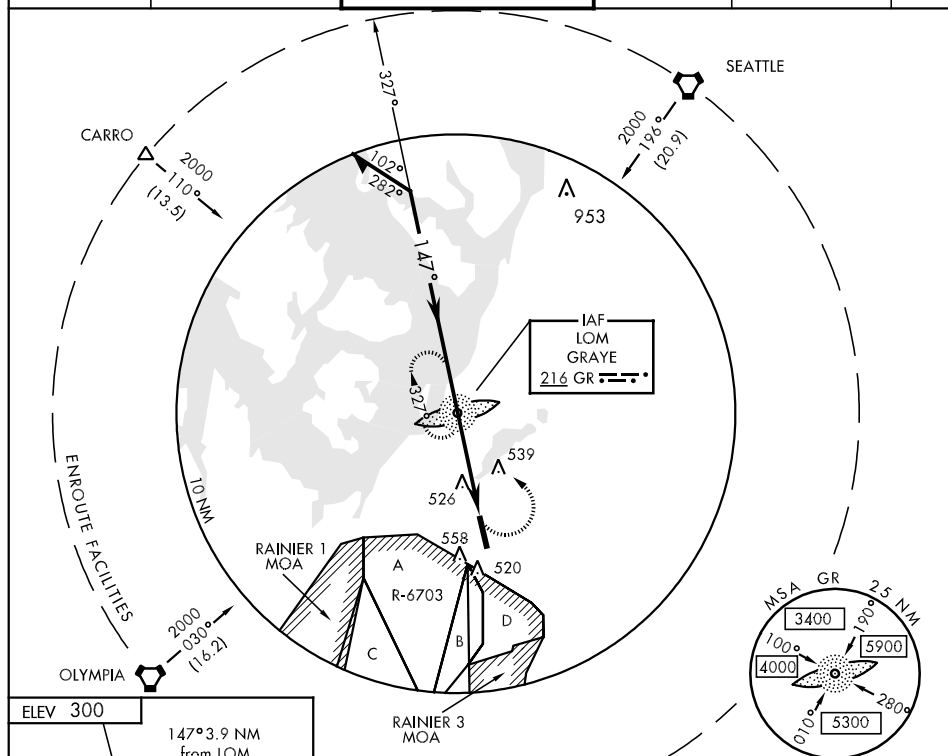
SEATTLE APP CON
120.1 290.9

GRAY TOWER ★
119.325 (CTAF) 256.8

GND CON
121.9 290.2

CLNC DEL
121.9 290.2

PAR



ELEV 300

147°3.9 NM
from LOM

TDZE
299

HRL Rwy 15-33

FAF to MAP 3.9 NM

Knots	60	90	120	150	180
Min:Sec	3:54	2:36	1:57	1:34	1:18

Remain
within 10 NM

LOM

2000

$$\frac{2.85^\circ}{\text{TCH } 40}$$

1500

A diagram of a rectangular plate. The horizontal dimension is labeled with a double-headed arrow and the text "3.9 nm". The vertical dimension is labeled with a double-headed arrow and the text "1.2 nm".

CATEGORY	A	B	C	D
S-15	840/40 541	(600-34)	840/60 541 (600-14)	840-1½ 541 (600-1½)
CIRCLING *	840-1 540	(600-1)	840-1½ 540 (600-1½)	860-2 560 (600-2)
S-PAR 15	499/40	200	(200-34)	GS 3.0°

FORT LEWIS, WASHINGTON

47°05'N-122°35'W

GRAY AAF (KGRF)

Amdt 19B 08325

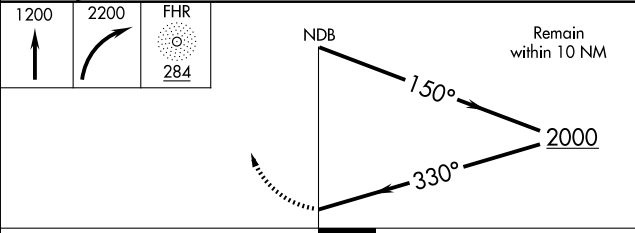
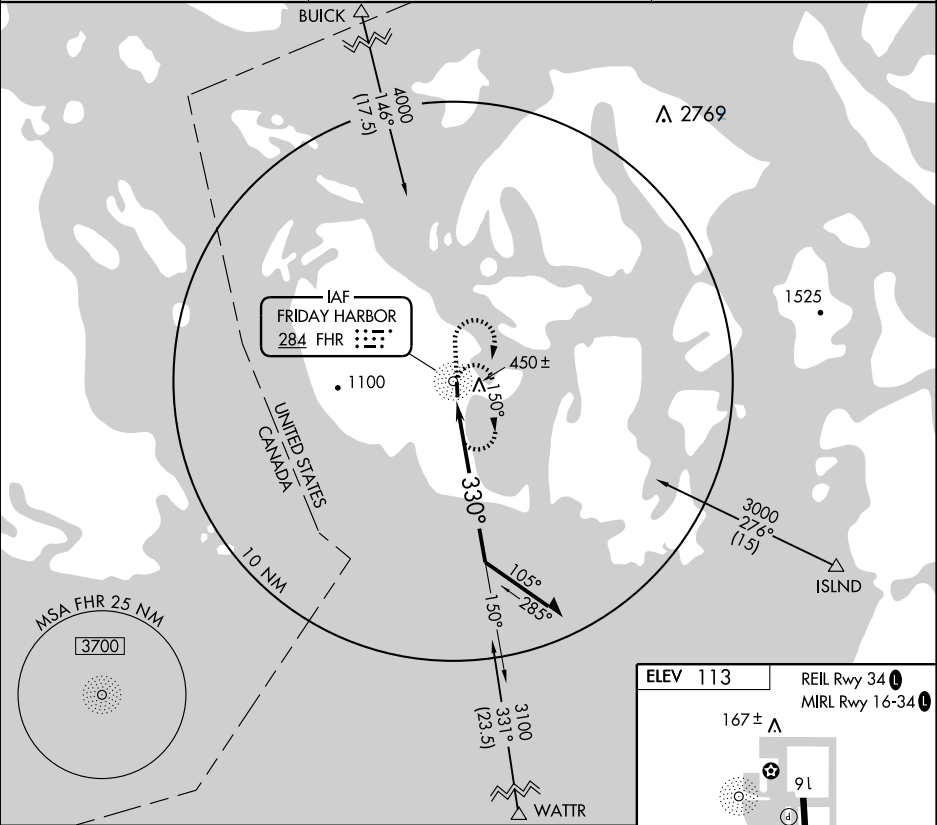
NIPPON 1.5

NDB RWY 34
FRIDAY HARBOR (FHR)

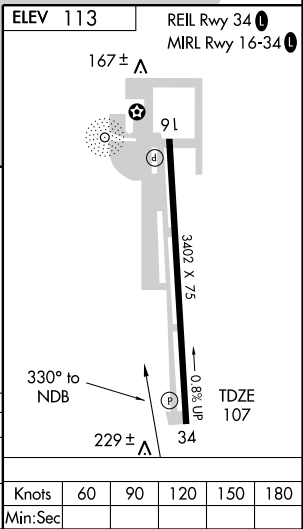
NDB FHR	APP CRS	Rwy Idg	3402
284	330°	TDZE	107
		Apt Elev	113

▼ ▲NA Circling not authorized west of Rwy 16-34.	MISSED APPROACH: Climb to 1200 then climbing right turn to 2200 direct to FHR NDB and hold.
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ASOS 135.675	WHIDBEY APP CON★ 118.2 285.65	CTAF 128.25
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CATEGORY	A	B	C	D
S-34	860-1 753 (800-1)	860-1¼ 753 (800-1¼)	860-2¼ 753 (800-2¼)	NA
CIRCLING	860-1 747 (800-1)	860-1¼ 747 (800-1¼)	860-2¼ 747 (800-2¼)	NA



Knots	60	90	120	150	180
Min:Sec					

WAAS Chan 40024 W34A	APP CRS 337°	Rwy Idg 3402 TDZE 108 Apt Elev 113
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RNAV (GPS) RWY 34

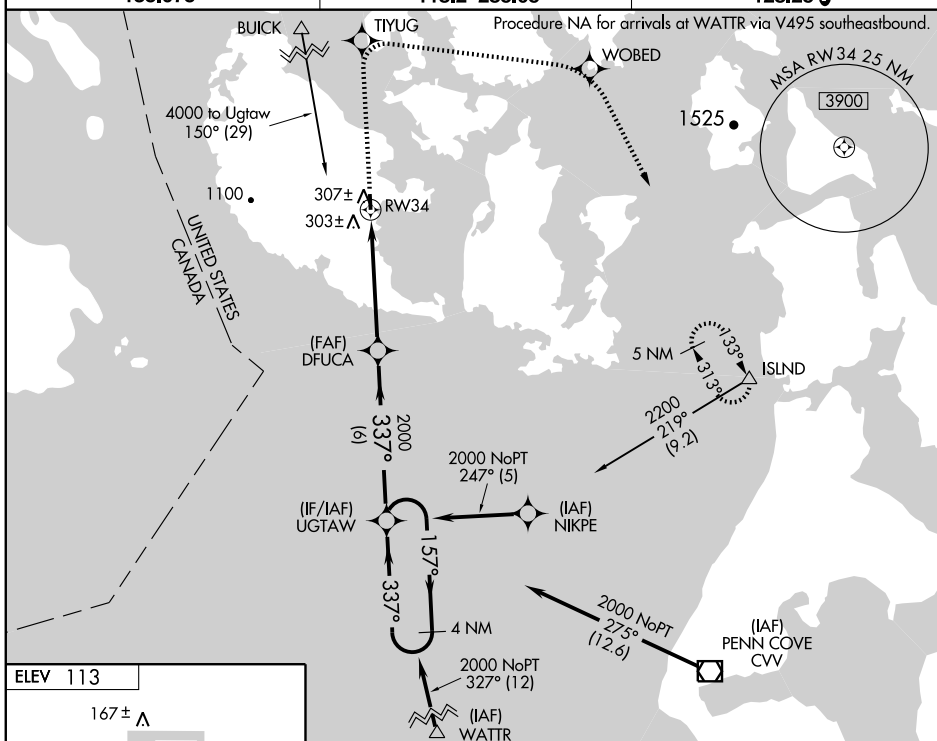
FRIDAY HARBOR (FHR)

T DME/DME RNP-0.3 NA.
Circling not authorized west of Rwy 16-34.
Baro-VNAV NA below -30°C (-22°F).
When VGSI inoperative, procedure NA at night.

MISSED APPROACH: Climb to 5000 direct TIYUG and via 077° track to WOBE and via 133° track to ISLND and hold.

ASOS
135.675

WHIDBEY APP CON★
118.2 285.65

CTAF
128.25 

ELEV	113
------	-----

 $167 \pm \Delta$

2

24

34
1

REIL Rwy 34 L
MIRL Rwy 16-3

5000 ↑	TIYUG ✦	077° Track	WOBED ✦	133° Track	ISLND △	UGTAW	4 NM Holding Pattern
CATEGORY	A		B		C		D
LPV DA	500-1¼		392 (400-1¼)				NA
RNAV DA	580-1½		472 (500-1½)				NA
RNAV MDA	640-1 532 (600-1)		640-1½ 532 (600-1½)				NA
CIRCLING	780-1½ 667 (700-1)		800-2 687 (700-2)				NA

ILS or LOC/DME RWY 24
HOQUIAM/BOWERMAN (HQM)

MALSR

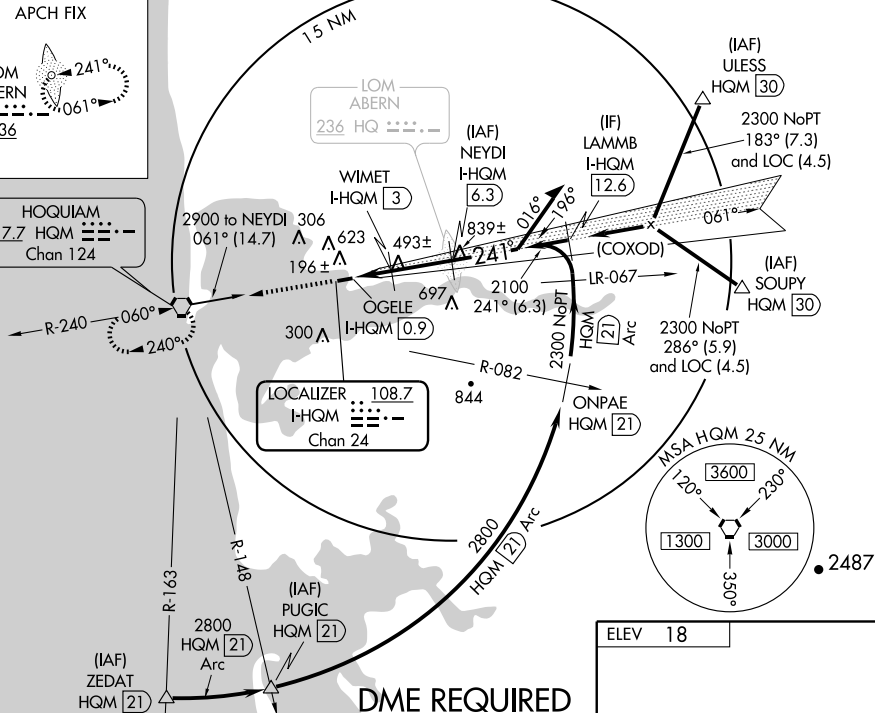
MISSED APPROACH: Climb to 2500
direct HQM VORTAC and hold.

UNICOM
122.7 (CTAF) **L**

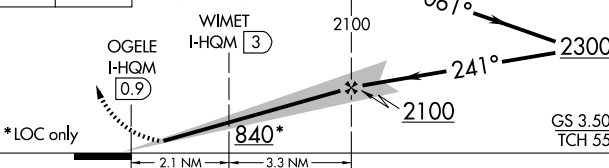
LOM
ABERN
HQ ---.
236

241°
061°

HOQUIAM
Z HQM $\frac{\cdot\cdot\cdot}{\cdot\cdot\cdot}$
Chgn 124

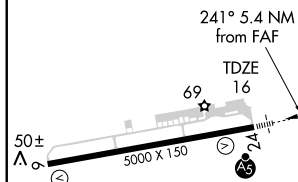


2500 ↑	HQM  117.7	VGSI and ILS glidepath not coincident. Use I-HQM DME when on LOC course.	NEYDI I-HQM 6.3 	Remain within 10 NM
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CATEGORY	A	B	C	D
S-ILS 24	216- ³ / ₄	200 (200- ³ / ₄)	286-1 270 (300-1)	NA
S-LOC 24	580- ³ / ₄	564 (600- ³ / ₄)	580-1 564 (600-1)	NA
CIRCLING	580-1	562 (600-1)	580-1½ 562 (600-½)	NA

ELEV 18



REIL Rwy 6 **L**
HJRL Rwy 6-24 **L**

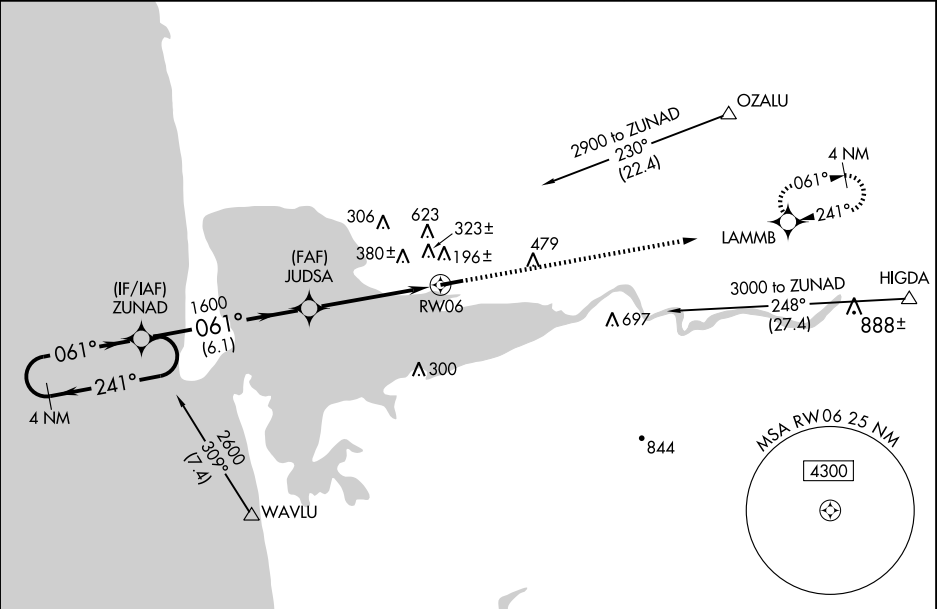
WAAS CH 82015 W06A	APP CRS 061°	Rwy Idg 5000 TDZE 18 Apt Elev 18
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RNAV (GPS) RWY 6
HOQUIAM/ BOWERMAN (HQM)

⚠ Circling NA northwest of Rwy 6-24.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 2900 direct LAMMB and hold.

ASOS 135.775	SEATTLE CENTER 128.3 269.0	UNICOM 122.7 (CTAF) 1
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4 NM Holding Pattern

2600

GS 3.00°
TCH 52

ZUNAD

061°

061°

1600

6.1 NM

JUDSA

1600

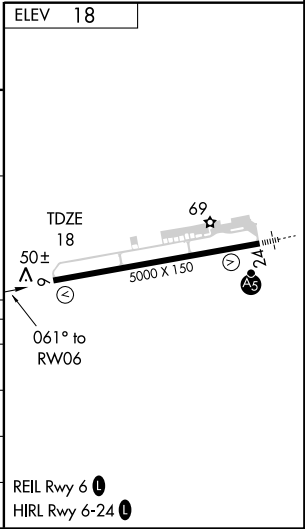
4.7 NM

2900

LAMMB

RW06

CATEGORY	A	B	C	D
LPV DA	308-1 290 (300-1)			
LNAV/VNAV DA	758-2½ 740 (800-2½)			
LNAV MDA	620-1	602 (700-1)	620-1¾ 602 (700-1¾)	620-2 602 (700-2)
CIRCLING	620-1	602 (700-1)	620-1¾ 602 (700-1¾)	620-2 602 (700-2)



WAAS CH 86902 W24A	APP CRS 241°	Rwy Idg TDZE Apt Elev	5000 16 18
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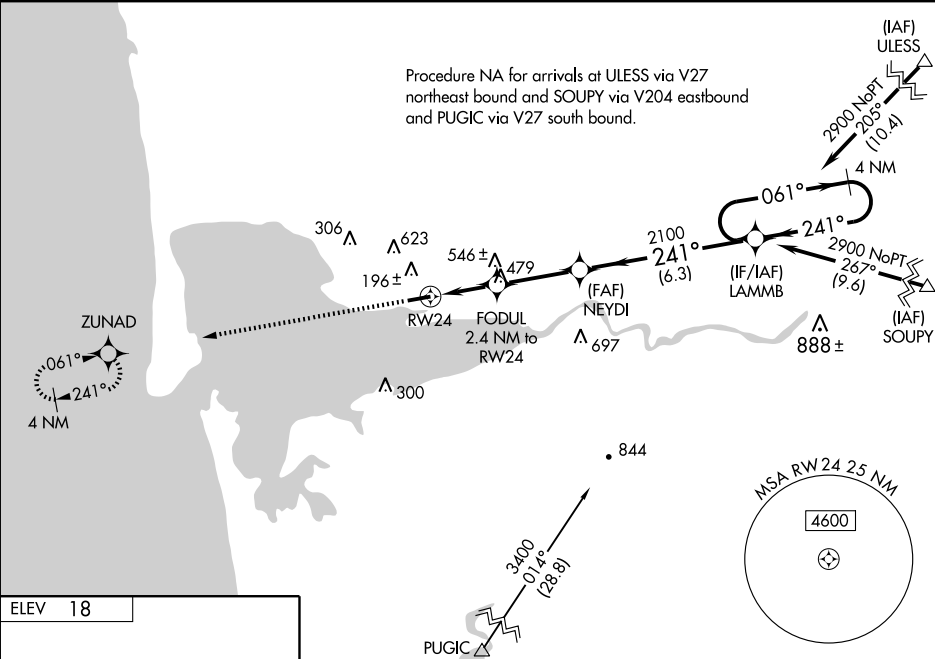
RNAV (GPS) RWY 24
HOQUIAM/ BOWERMAN (HQM)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 47°C (116°F). Inoperative table does not apply to LPV. DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA. For inoperative MALSR, increase LNAV Cat A visibility to 1 mile. Circling NA northwest of Rwy 6-24. When local altimeter setting not received, procedure NA.

MALSR

MISSED APPROACH: Climb to 2600 direct ZUNAD and hold.

ASOS 135.775	SEATTLE CENTER 128.3 269.0	UNICOM 122.7 (CTAF) 0
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ELEV 18

REIL Rwy 6 **0**
HIRL Rwy 6-24 **0**

2600	ZUNAD	VGSI and RNAV glidepath not coincident.			
		FODUL 2.4 NM to RWY 24	NEYDI	LAMMB	4 NM Holding Pattern
		960	2100	2900	GS 3.50° TCH 55
		2.4 NM	3 NM	6.3 NM	
CATEGORY	A	B	C	D	
LPV DA	216-3/4	200 (200-3/4)	286-1 270 (300-1)	NA	
LNAV/VNAV DA	1029-2 1/2 1013 (1100-2 1/2)				NA
LNAV MDA	800-3/4	784 (800-3/4)	800-1 3/4 784 (800-1 3/4)	NA	
CIRCLING	800-1 782 (800-1)	800-1 1/4 782 (800-1 1/4)	800-2 1/4 782 (800-2 1/4)	NA	

VORTAC HQM <u>117.7</u> Chan 124	APP CRS 241°	Rwy Idg 5000 TDZE 16 Apt Elev 18
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VOR/DME RWY 24
HOQUIAM/BOWERMAN (HQM)

T
A Circling NA northwest of Rwy 6 and 24.
Visibility reduction by helicopters NA.

MALS



MISSED APPROACH: Climb to 2500 via HQM VORTAC R-061 to HQM VORTAC and hold.

ASOS 135.775	SEATTLE CENTER 128.3 269.0	UNICOM 122.7 (CTAF) 0
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Procedure NA for arrivals at OZCIS via V204 eastbound.

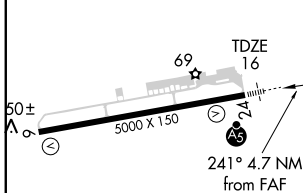
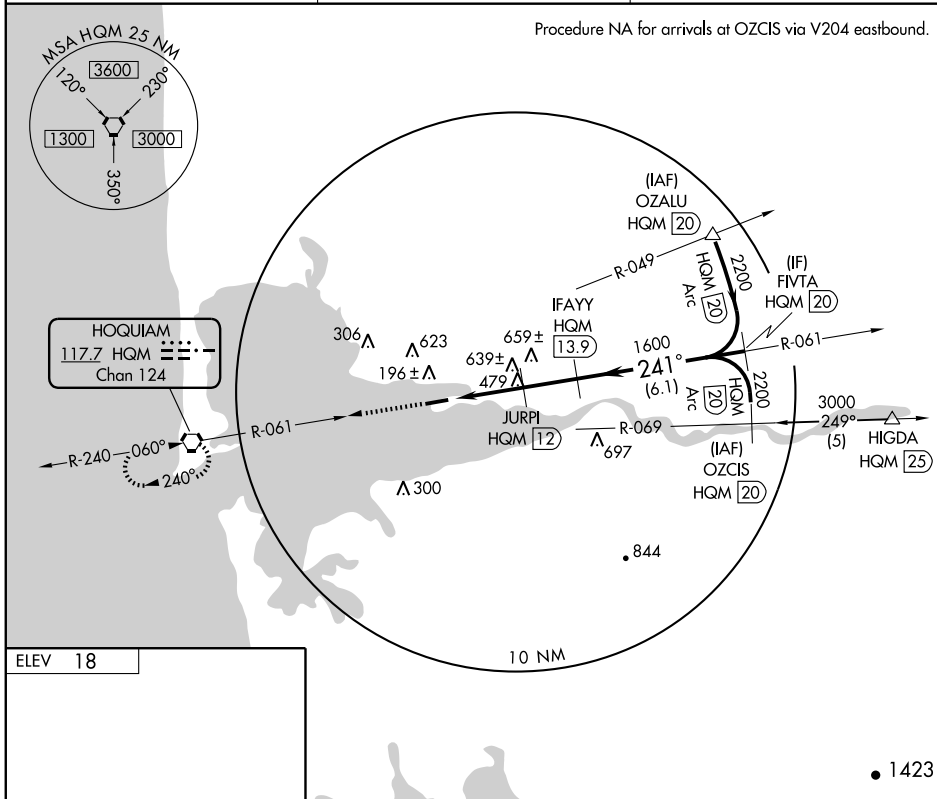


Diagram illustrating a flight path with waypoints and distances:

- Waypoints: HQM R-061, HQM 9.3, JURPI 12, IFAYY 13.9, FIVTA 20.
- Distances: 2.8 NM, 1.9 NM, 6.1 NM.
- Angles: 241°, 3.10° TCH 52.
- Procedure Turn: NA.

CATEGORY	A	B	C	D
S-24	900-3/4	884 (900-3/4)	900-2 1/4 884 (900-2 1/4)	900-2 1/2 884 (900-2 1/2)
CIRCLING	900-1 1/4	882 (900-1 1/4)	900-2 3/4 882 (900-2 3/4)	900-3 882 (900-3)

REIL Rwy 6 L

HIRL Rwy 6-24 **L**

VORTAC HQM	APP CRS	Rwy Idg	5000
117.7	062°	TDZE	18
Chan 124		Apt Elev	18

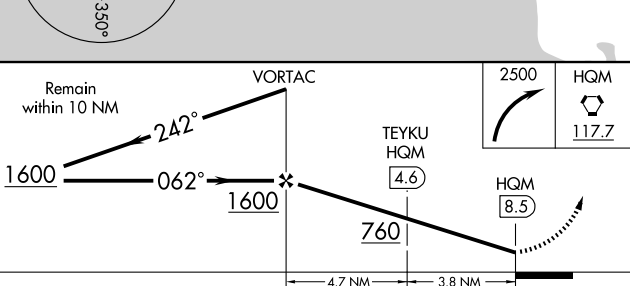
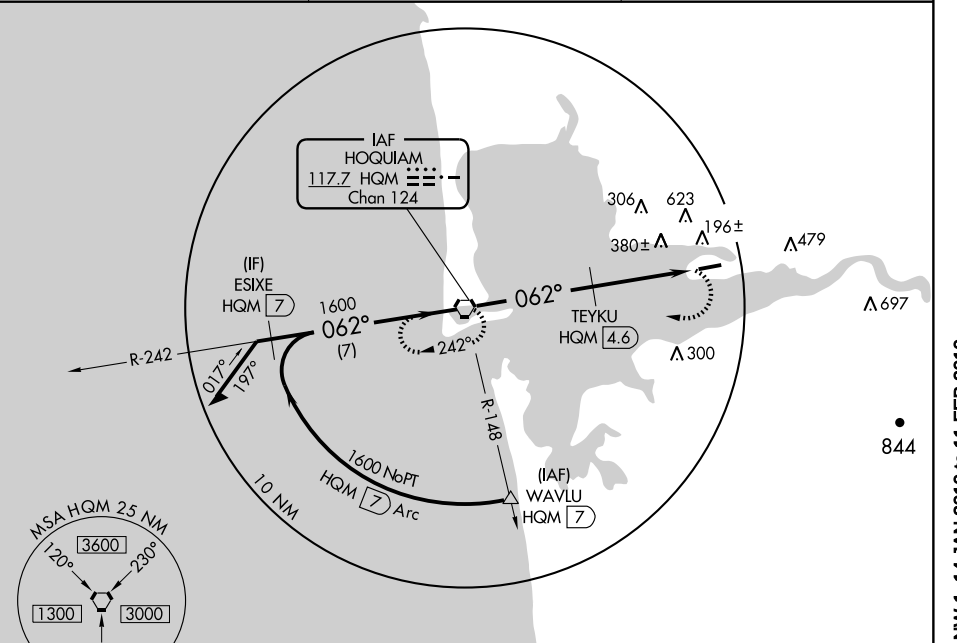
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Visibility reduction by helicopters NA.
Circling NA northwest of Rwy 6 and 24.

MISSED APPROACH: Climbing right turn to 2500 direct HQM
VORTAC and hold.

ASOS 135.775	SEATTLE CENTER 128.3 269.0	UNICOM 122.7 (CTAF) 1
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CATEGORY	A	B	C	D
S-6	760-1 742 (800-1)	760-1¼ 742 (800-1¼)	760-2¼ 742 (800-2¼)	760-2½ 742 (800-2½)
CIRCLING	760-1 742 (800-1)	760-1¼ 742 (800-1¼)	760-2¼ 742 (800-2¼)	760-2½ 742 (800-2½)
TEYKU FIX MINIMUMS				
S-6	640-1	622 (700-1)	640-1¾ 622 (700-1¾)	640-2 622 (700-2)
CIRCLING	640-1	622 (700-1)	640-1¾ 622 (700-1¾)	640-2 622 (700-2)

ELEV 18

REIL Rwy 6 1
HIRL Rwy 6-24 1

FAF to MAP 8.5 NM

Knots	60	90	120	150	180
Min:Sec	8:30	5:40	4:15	3:24	2:50

GPS RWY 12

SOUTHWEST WASHINGTON RGNL (KLS)

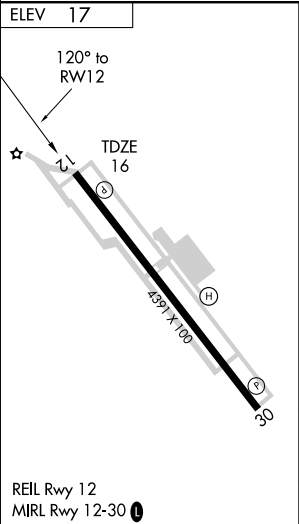
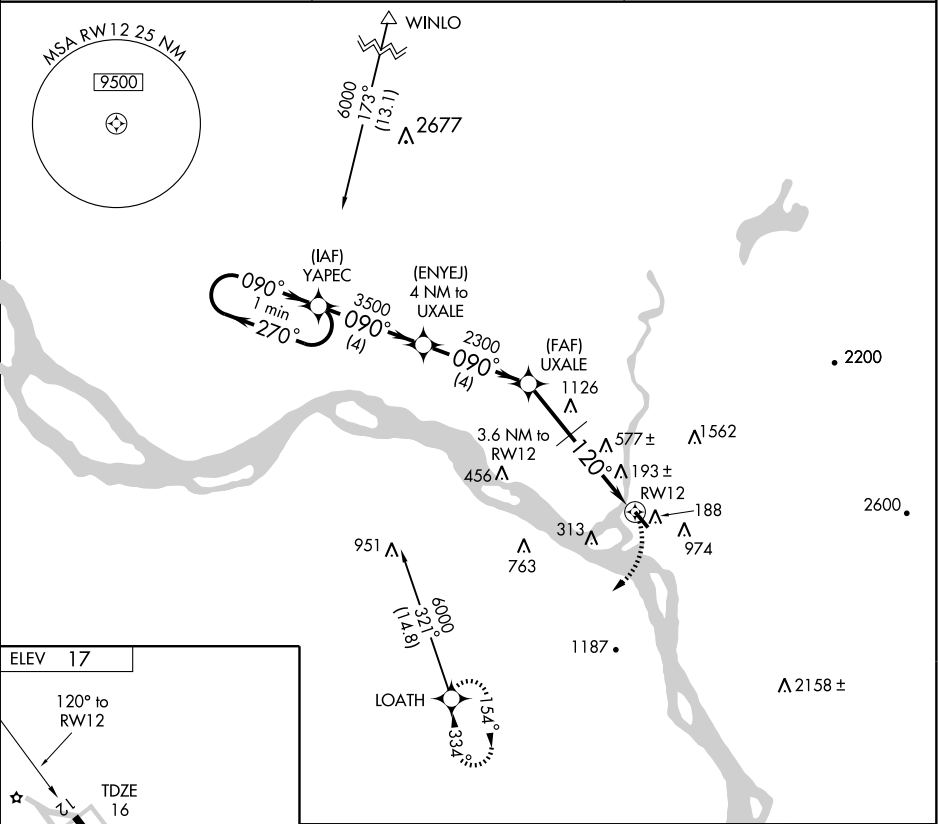
APP CRS	Rwy Idg	4391
120°	TDZE	16
	Apt Elev	17

NA

Circling not authorized northeast of Rwy 12-30.

MISSED APPROACH: Climbing right turn to 6000 direct LOATH WP and hold.

AWOS-3 135.075	SEATTLE CENTER 124.2 317.6	UNICOM 122.8 (CTAF)
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One Minute Holding Pattern

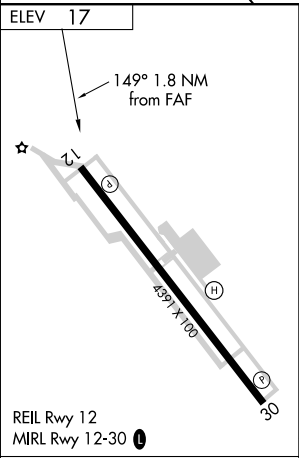
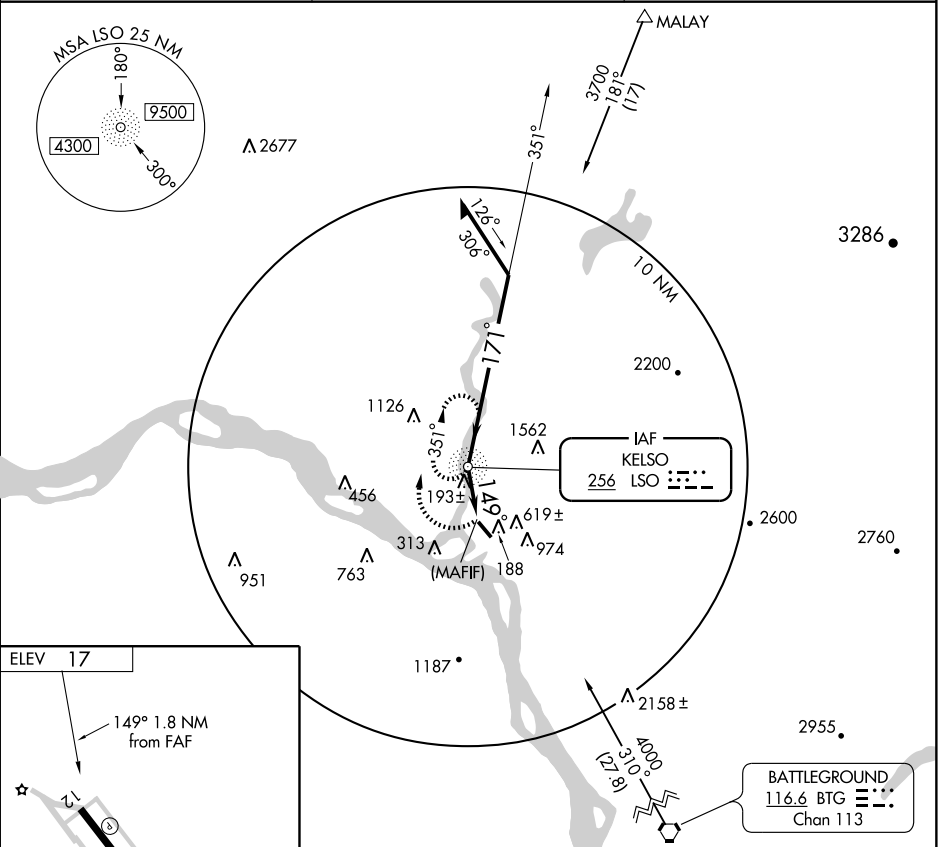
CATEGORY	A	B	C	D
S-12	960-1¼	944 (1000-1¼)	NA	
CIRCLING	960-1¼	943 (1000-1¼)	NA	

NDB	LSO	APP CRS	Rwy Idg TDZE	N/A
<u>256</u>		<u>149°</u>	Apt Elev	<u>17</u>

NDB or GPS-A
SOUTHWEST WASHINGTON RGNL (KLS)

NA	Circling not authorized northeast of Rwy 12-30.	MISSED APPROACH: Climbing right turn to 3300 direct LSO NDB and hold.
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AWOS-3 135.075	SEATTLE CENTER 124.2 317.6	UNICOM 122.8 (CTAF)
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3300	LSO <u>256</u>	NDB	Remain within 10 NM
		351°	3300
	(MAFIF)	149°	171°
		1800	
	1.8 NM		

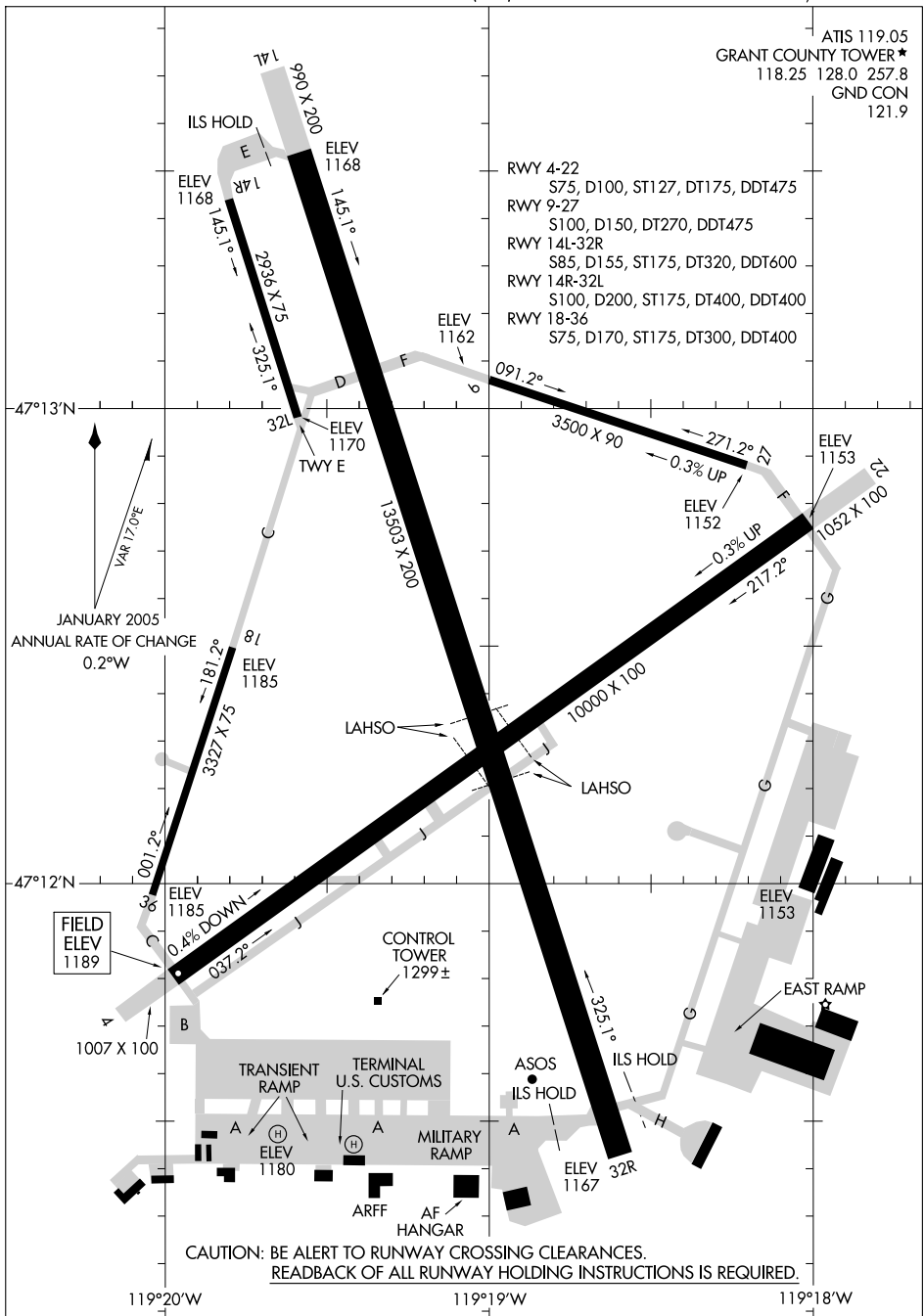
FAF to MAP 1.8 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1120-1¼ 1103 (1200-1¼)	1120-1½ 1103 (1200-1½)	NA	
Min:Sec	1:48	1:12	0:54	0:43	0:36					

AIRPORT DIAGRAM

AL-961 (FAA)

MOSES LAKE/GRANT COUNTY INTL (MWH)

MOSES LAKE, WASHINGTON



NW-1. 14 JAN 2010 to 11 FEB 2010

LOC I-MWH	APP CRS	Rwy Idg	13503
109.5	324°	TDZE	1167
		Apt Elev	1189

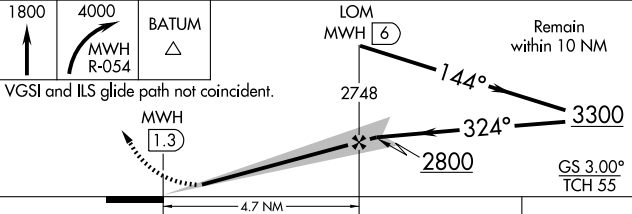
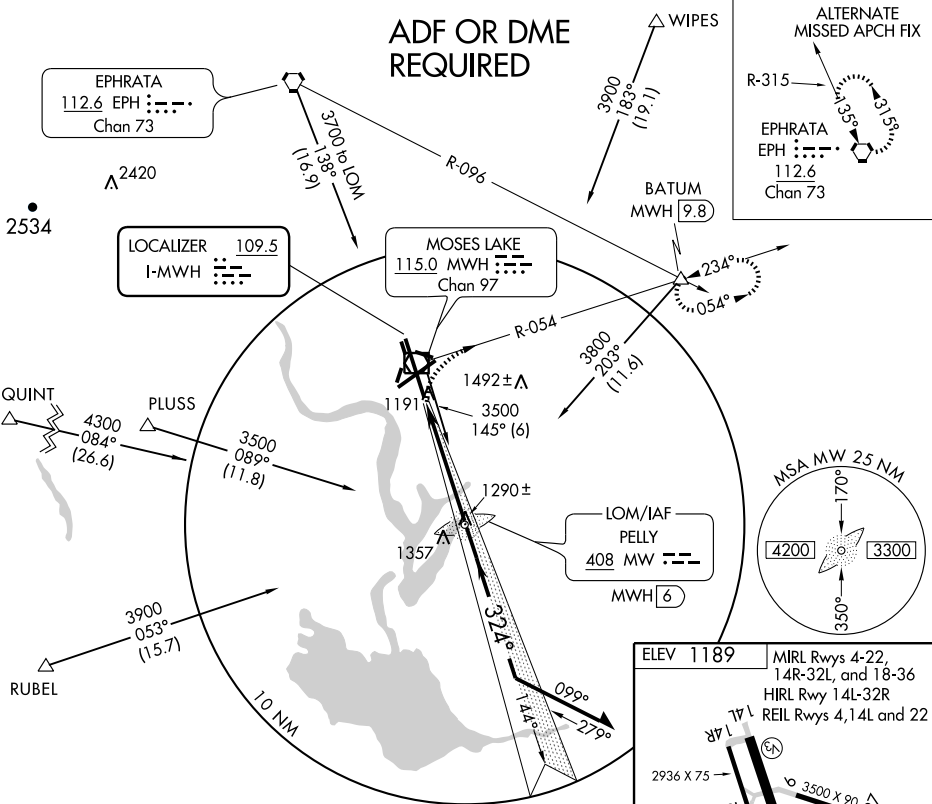
ILS or LOC RWY 32R

MOSES LAKE/ GRANT COUNTY INTL (MWH)

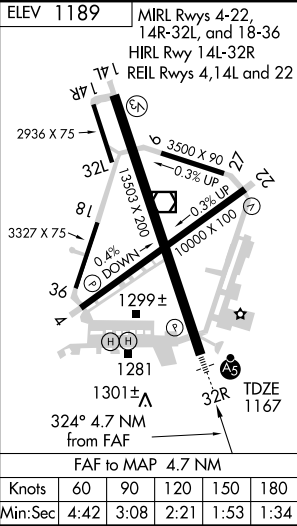
For inoperative MALS, increase S-LOC 32R Cat. D visibility to RVR 5000.
If local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDAs 40 feet.
*RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALS
MISSED APPROACH: Climb to 1800, then climbing right turn to 4000 via MWH R-054 to BATUM INT/MWH 9.8 DME and hold, continue climb-in-hold to 4000.

ATIS	GRANT COUNTY APP CON *	GRANT COUNTY TOWER *	GND CON	UNICOM
119.05	126.4 379.95	118.25 (CTAF) 128.0 257.8	121.9	122.95



CATEGORY	A	B	C	D
S-ILS 32R		*1367/24	200 (200-½)	
S-LOC 32R		1440/24	273 (300-½)	1440/40 273 (300-¾)
CIRCLING	1680-1 491 (500-1)	1680-1½ 491 (500-½)	1740-2 551 (600-2)	



MOSES THREE DEPARTURE

SL-961 (FAA)

MOSES LAKE/GRANT COUNTY INTL (MWH)

MOSES LAKE, WASHINGTON

ATIS 119.05

GND CON

121.9

GRANT COUNTY TOWER ★

118.25 (CTAF) 128.0 257.8

GRANT COUNTY DEP CON ★

126.4 379.95

WENATCHEE
111.0 EAT :--
Chan 47
N47°23.98' - W120°12.65'

L-13



EPHRATA
112.6 EPH :--
Chan 73
N47°22.68' - W119°25.44'

L-13, H-1



SPOKANE
115.5 GEG :--
Chan 102
N47°33.90' - W117°37.61'

L-13, H-1

ELLENSBURG
117.9 ELN :--
Chan 126
N47°01.46' - W120°27.51'

L-13, H-1

MOSES LAKE
115.0 MWH :--
Chan 97
N47°12.65' - W119°19.01'

L-13, H-1

YAKIMA
116.0 YKM :--
Chan 107
N46°34.22' - W120°26.68'

L-13, H-1

PASCO
108.4 PSC :--
Chan 21
N46°15.78' - W119°06.94'

L-13

WALLA WALLA
116.4 ALW :--
Chan 111
N46°05.22' - W118°17.55'

L-13

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

ALL RUNWAYS: Fly runway heading, or ATC assigned heading, for vector to assigned route/fix. Maintain 5000' or ATC assigned altitude. Expect clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS: If no transmissions received for 1 minute after departure, maintain runway heading, or ATC assigned heading to 6000', then climbing right turn to filed altitude, direct MWH VOR/DME, then via assigned fix/route.

LOM MW
408

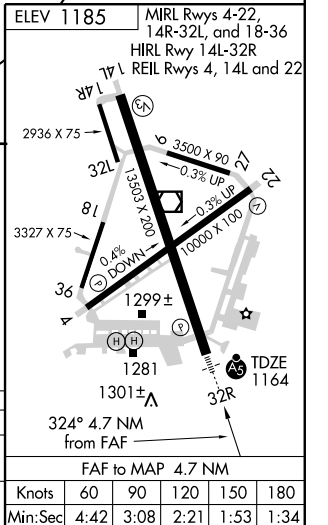
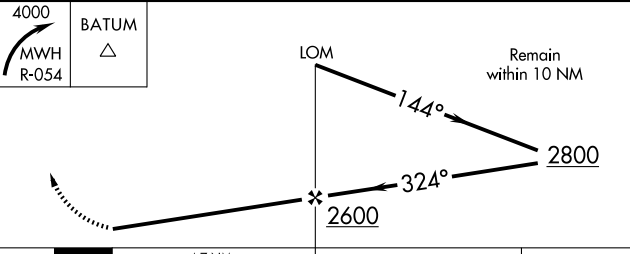
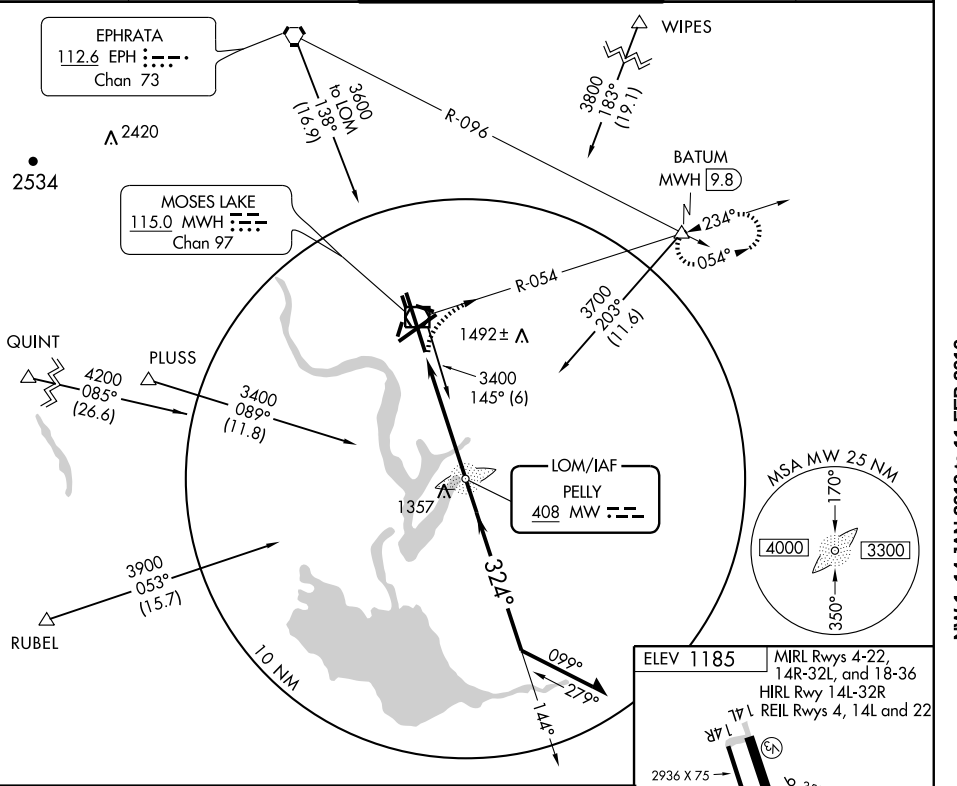
APP CRS
324°

Rwy Idg
13503
TDZE
1164
Apt Elev
1185

MALSR

MISSED APPROACH: Climbing right turn to 4000
via MWH R-054 to BATUM Int/MWH 9.8 DME and
hold.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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NW-1, 14 JAN 2010 to 11 FEB 2010

WAAS CH 42809 W04A	APP CRS 036°	Rwy ldg TDZE Apt Elev	10000 1189 1189
--	------------------------	-----------------------------	--

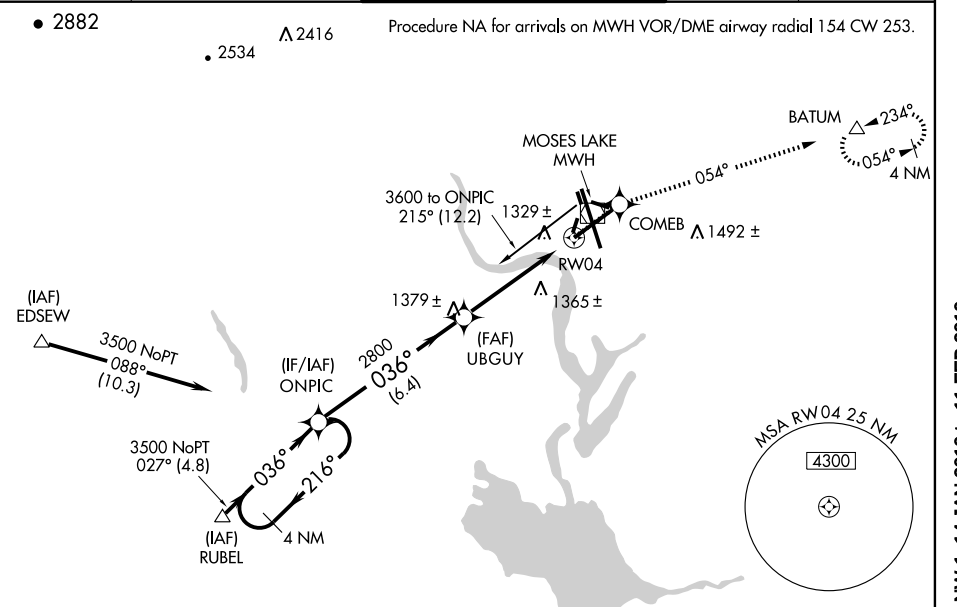
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For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDA 40 feet and increase LPV all Cats and LNAV/VNAV all Cats visibility ¼ mile. Baro-VNAV and VDP NA when using Ephrata altimeter setting.

MISSED APPROACH: Climb to 4000 direct COMEB and via 054° track to BATUM and hold, continue climb-in-hold 4000.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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4NM Holding Pattern		ONPIC		* LNAV only		4000	COMEB	054° track	BATUM
3500 ← 216° / 036° →		2800		UBGUY		* 1.2 NM RW04		RW04	
GS 3.00° TCH 50		6.4 NM		3.6 NM		1.2 NM			
CATEGORY	A	B	C	D					
LPV DA	1439- ³ / ₄		250 (300- ³ / ₄)						
LNAV/VNAV DA	1636-1 ¹ / ₂		447 (500-1 ¹ / ₂)						
LNAV MDA	1620-1	431 (500-1)	1620-1 ¹ / ₄ 431 (500-1 ¹ / ₄)	1620-1 ¹ / ₂ 431 (500-1 ¹ / ₂)					
CIRCLING	1660-1	471 (500-1)	1660-1 ¹ / ₂ 471 (500-1 ¹ / ₂)	1740-2 551 (600-2)					

ELEV 1189

REIL Rwy 4, 14L and 22
HIRL Rwy 14L-32R
MRL Rwy 4-22, 14R-32L, and 18-36

NW-1. 14 JAN 2010 to 11 FEB 2010

WAAS CH 90509 W14A	APP CRS 144°	Rwy Idg 13503 TDZE 1169 Apt Elev 1189
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RNAV (GPS) RWY 14L

MOSES LAKE/ GRANT COUNTY INTL (MWH)



For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Ephrata altimeter setting. When local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDA 40 feet and increase LPV all CATs and LNAV/VNAV all CATs visibility ¼ mile.

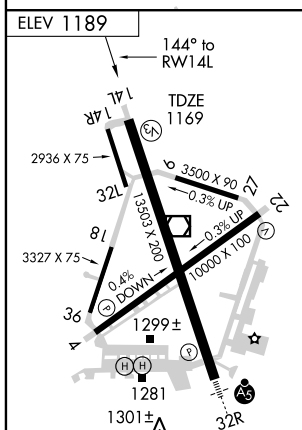
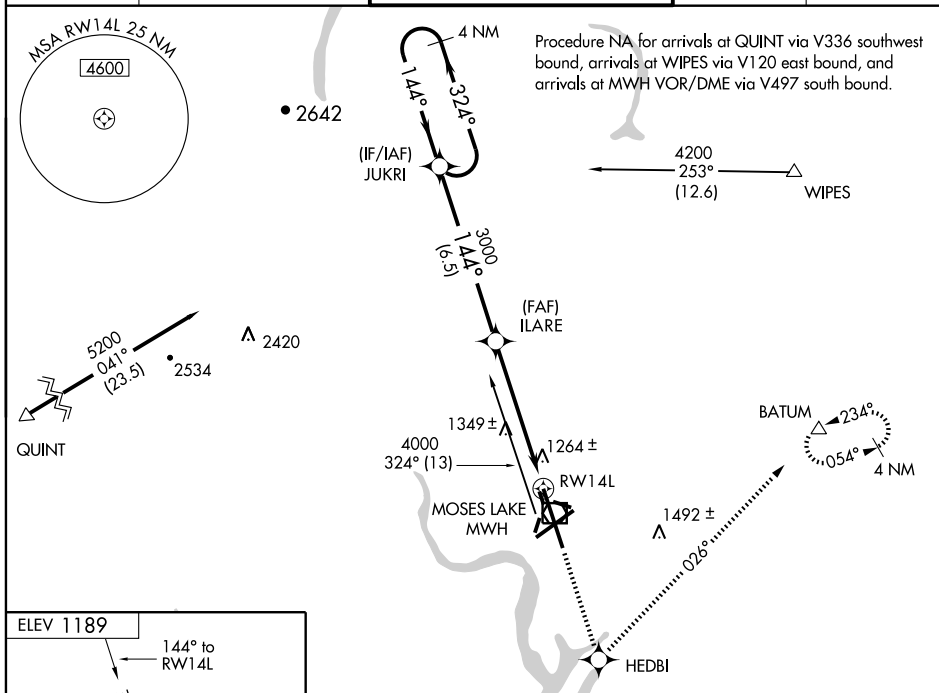
MISSED APPROACH: Climb to 4000
direct HEDBI and via 026° track to
BATUM and hold, continue climb-in-hold
4000.

ATIS
119.05

GRANT COUNTY APP CON ★
126.4 379.95

GRANT COUNTY TOWER ★
118.25 (CTAF) **L** 128.0 257.8

GND CON
121.9

UNICOM
122.95

4NM Holding Pattern JUKRI		* LNAV only ILARE		4000 	HEDBI 	026° track 	BATUM
4000 ← 324° 144° →		144° 3000		* 1.2 NM RW14L RW14L			
GS 3.00° TCH 52		6.5 NM		4.3 NM		1.2 NM	
CATEGORY	A		B	C		D	
LPV DA	1419-3/4		250 (300-3/4)				
LNAV/VNAV DA	1622-1 1/2		453 (500-1 1/2)				
LNAV MDA	1600-1	431 (500-1)	1600-1 1/4 431 (500-1 1/4)		1600-1 1/2 431 (500-1 1/2)		
CIRCLING	1660-1	471 (500-1)	1660-1 1/2 471 (500-1 1/2)		1740-2 551 (600-2)		

REIL Rwy 4, 14L and 22
HIRL Rwy 14L-32R
MIRL Rwy 4-22, 14R-32L, and 18-36

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For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Ephrata altimeter setting. When local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDA 40 feet and increase LNAV/VNAV all Cats and LNAV Cat D visibility 1/4 mile.

MISSED APPROACH: Climb to 3500 direct ONPIC and hold.

ATIS

GRANT COUNTY APP CON *

GRANT COUNTY TOWER *

GND CON

UNICOM

119.05

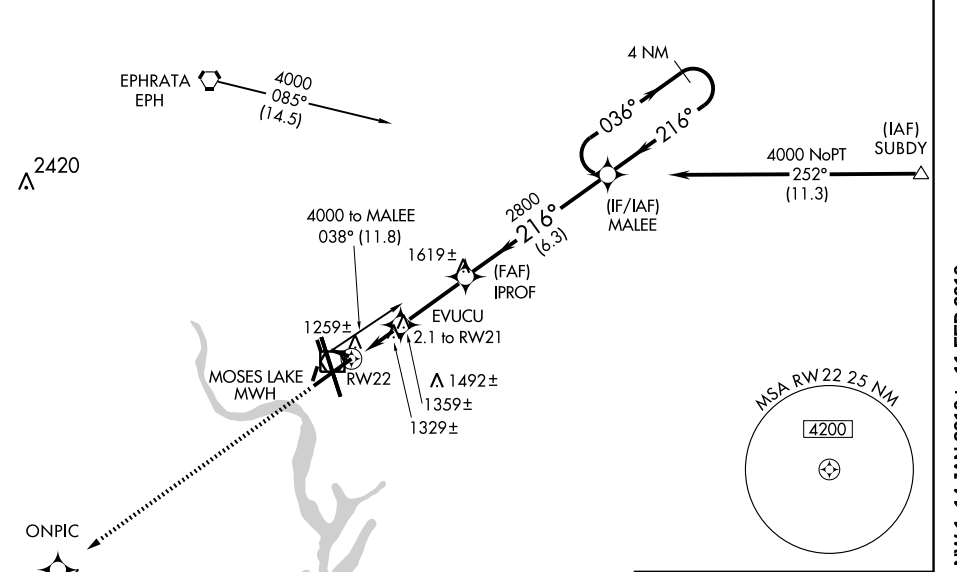
126.4 379.95

118.25 (CTAF) 128.0 257.8

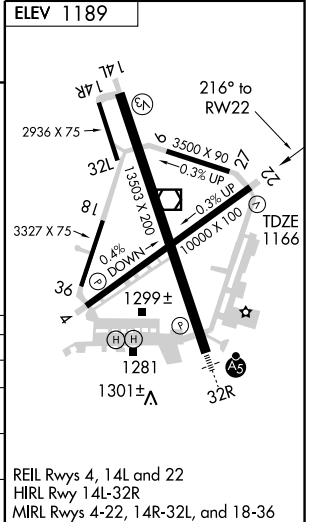
121.9

122.95

Procedure NA for arrivals at EPH VORTAC via V120 westbound.



ELEV 1189				
3500 ONPIC * LNAV only EVUCU IPROF MALEE 4NM Holding Pattern 216° 036° 4000 GS 3.00° TCH 50 1.2 NM 0.9 NM 2.9 NM 6.3 NM				
CATEGORY	A	B	C	D
LPV DA	1416-1		250 (300-1)	
LNAV/VNAV DA	1529-1½		363 (400-1½)	
LNAV MDA	1580-1 414 (500-1)		1580-1½ 414 (500-1½)	
CIRCLING	1660-1 471 (500-1)		1660-1½ 471 (500-1½) 1740-2 551 (600-2)	



NW-1. 14 JAN 2010 to 11 FEB 2010

WAAS CH 77799 W32A	APP CRS 324°	Rwy Idg 13503 TDZE 1164 Apt Elev 1185
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RNAV (GPS) RWY 32R

MOSES LAKE/GRANT COUNTY INTL (MWH)

DME/DME RNP-0.3 NA. Baro-VNAV NA below -17°C (1°F).
For inoperative MALSR increase LPV all Cats visibility to
RVR 4000, and LNAV Cat D visibility to 1½.

MALSR

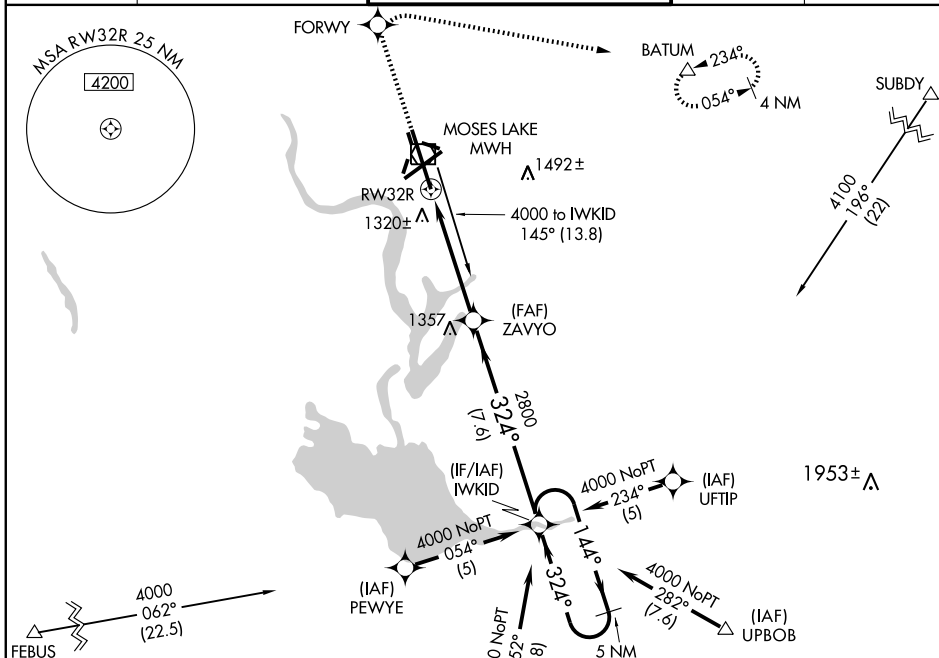
MISSED APPROACH: Climb to 4000 direct FORWY and right turn via 080° track to BATUM and hold, continue climb-in-hold to 4000.

ATIS
119.05

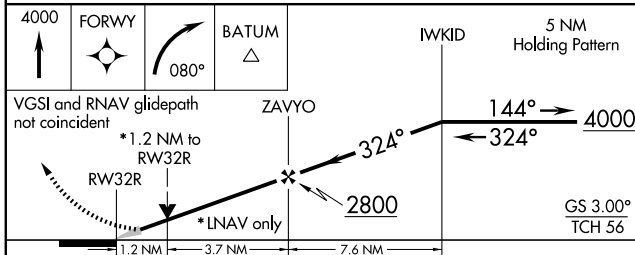
GRANT COUNTY APP CON ★
126.4 379.95

GRANT COUNTY TOWER ★
118.25 (CTAF) 128.0 257.8

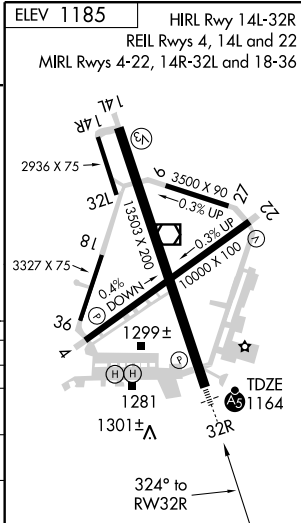
GND CON
121.9

UNICOM
122.95

NW-1 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D
LPV DA	1414/24	250 (300-½)		
LNAV/VNAV DA	1667/60	503 (500-1¼)		
LNAV MDA	1620/24 456 (500-½)	1620/40 456 (500-¾)	1620/50 456 (500-1)	
CIRCLING	1680-1¾ 495 (500-1¾)		1740-2 555 (600-2)	

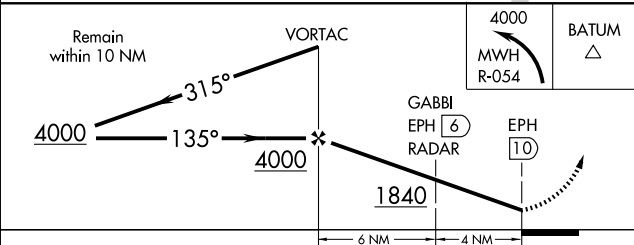
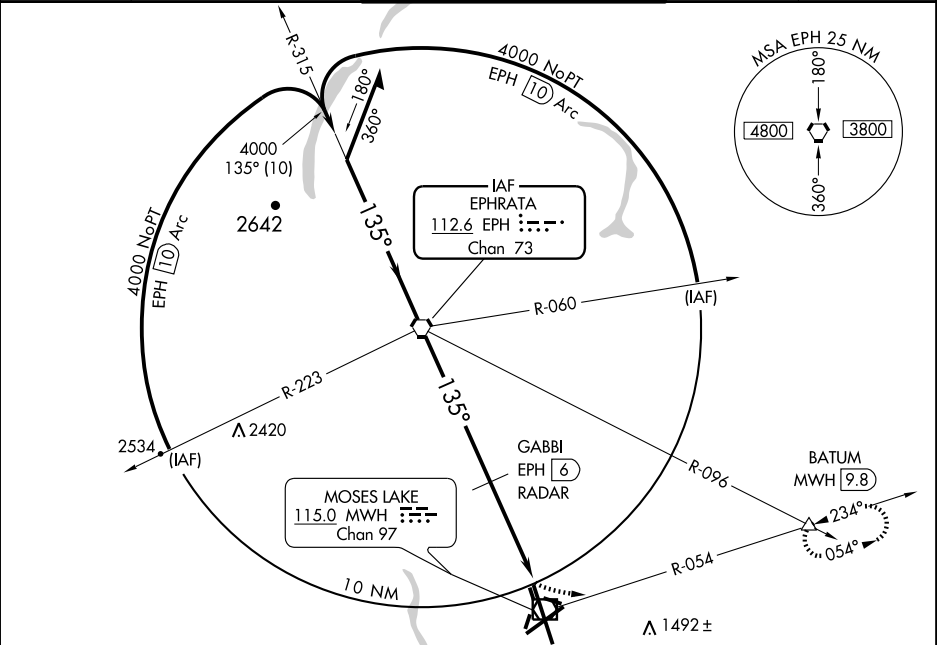


VORTAC EPH 112.6 Chan 73	APP CRS 135°	Rwy Idg 13503 TDZE 1166 Apt Elev 1185
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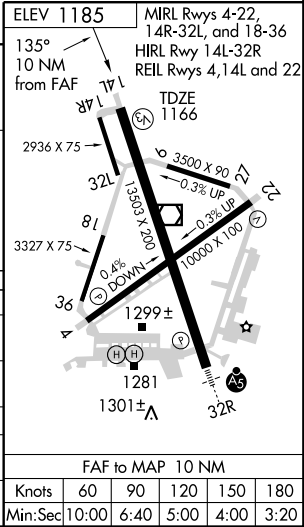
VOR-1 RWY 14L
MOSES LAKE/GRANT COUNTY INTL (MWH)

MISSSED APPROACH: Climbing left turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-14L	1840-1 674 (700-1)		1840-2 674 (700-2)	1840-2 1/4 674 (700-2 1/4)
CIRCLING	1840-1 655 (700-1)		1840-1 3/4 655 (700-1 3/4)	1840-2 655 (700-2)
GABBI DME or RADAR MINIMUMS				
S-14L	1640-1 474 (500-1)		1640-1 1/4 474 (500-1 1/4)	1640-1 1/2 474 (500-1 1/2)
CIRCLING	1680-1 495 (500-1)		1680-1 1/2 495 (500-1 1/2)	1740-2 555 (600-2)



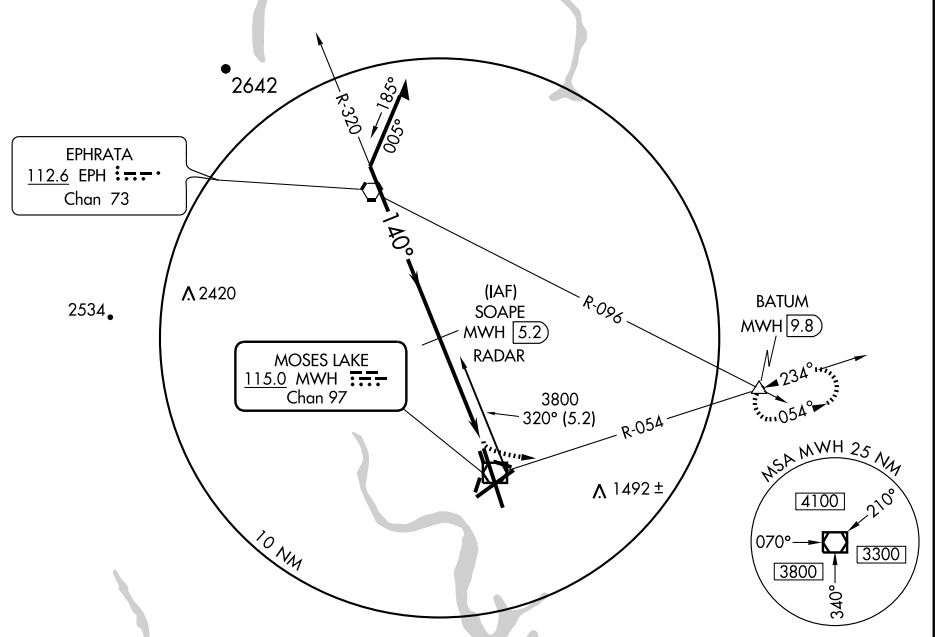
VOR/DME MWH	APP CRS	Rwy Idg	13503
115.0	140°	TDZE	1166
Chan 97		Apt Elev	1185

VOR-3 RWY 14L

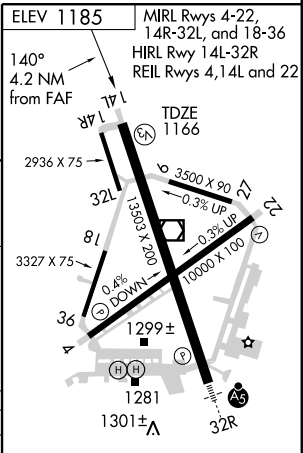
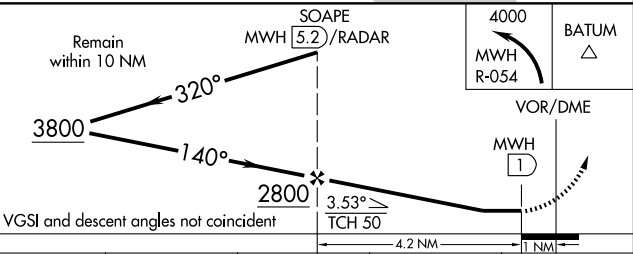
MOSES LAKE/ GRANT COUNTY INTL (MWH)

MISSED APPROACH: Climbing left turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS 119.05	GRANT COUNTY APP CON ★ 126.4 379.95	GRANT COUNTY TOWER ★ 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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RADAR or DME REQUIRED



CATEGORY	A	B	C	D
S-14L	1620-1 454 (500-1)		1620-1½ 454 (500-1½)	1620-1½ 454 (500-1½)
CIRCLING	1680-1 495 (500-1)		1680-1½ 495 (500-1½)	1740-2 555 (600-2)

FAF to MAP 4.2 NM					
Knots	60	90	120	150	180
Min:Sec	4:12	2:48	2:06	1:41	1:24

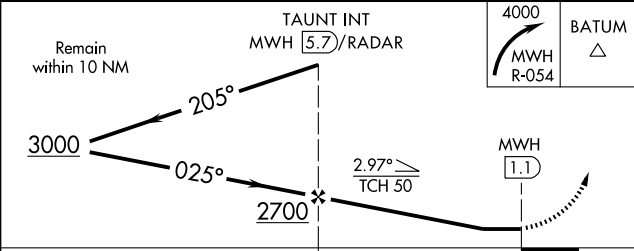
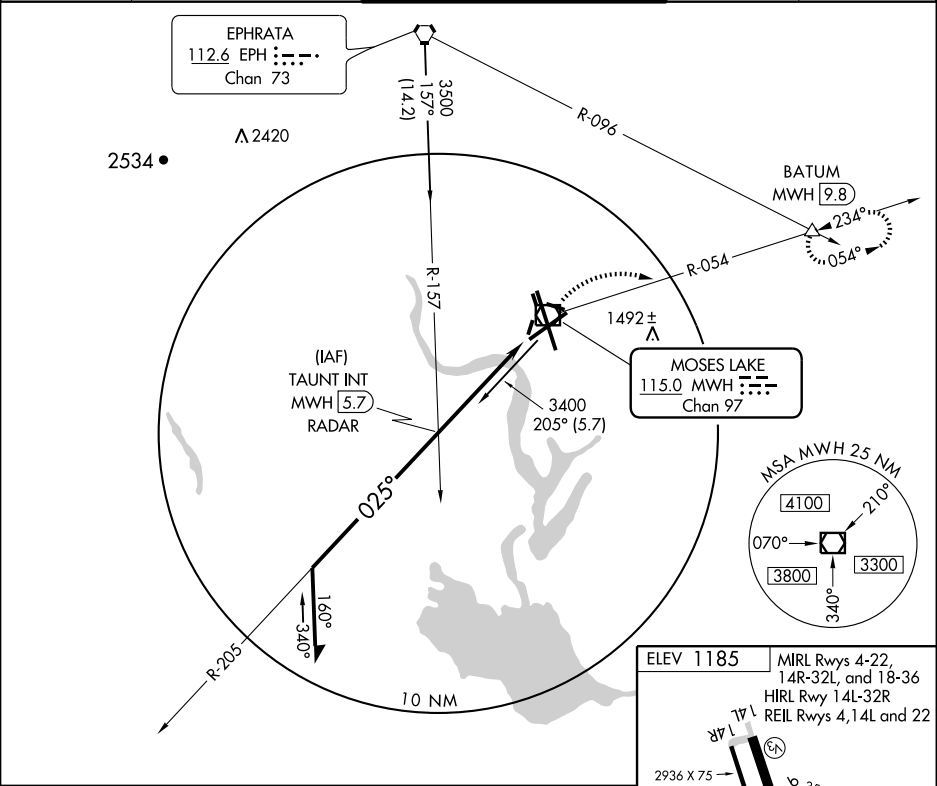
VOR RWY 4

MOSES LAKE/ GRANT COUNTY INTL (MWH)

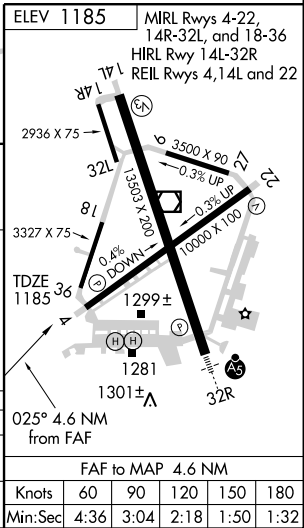
VOR/DME MWH	APP CRS	Rwy Idg	10000
115.0	025°	TDZE	1185
Chan 97		Apt Elev	1185

MISSED APPROACH: Climbing right turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-4	1620-1	435 (500-1)	1620-1½ 435 (500-1½)	1620-1½ 435 (500-1½)
CIRCLING	1680-1	495 (500-1)	1680-1½ 495 (500-1½)	1740-2 555 (600-2)



VOR/DME MWH	APP CRS	Rwy Idg	10000
115.0	231°	TDZE	1161
Chan 97		Apt Elev	1185

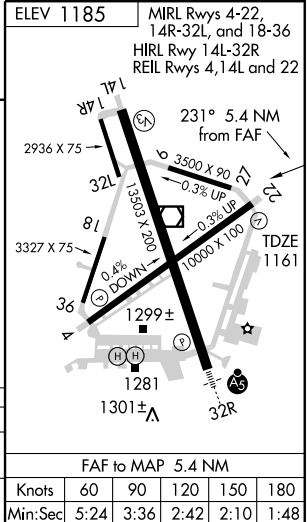
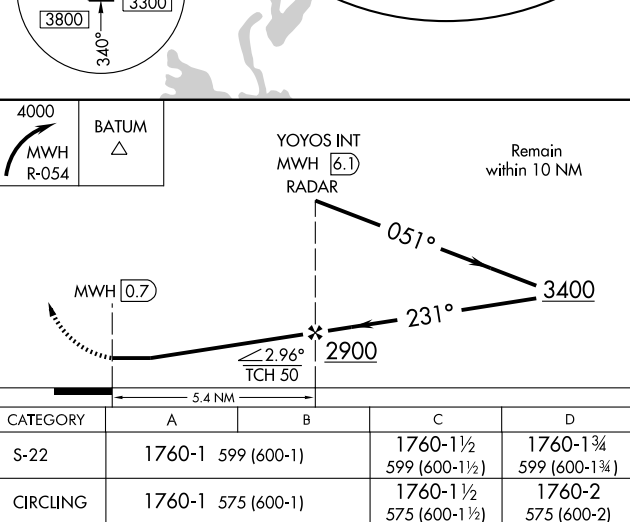
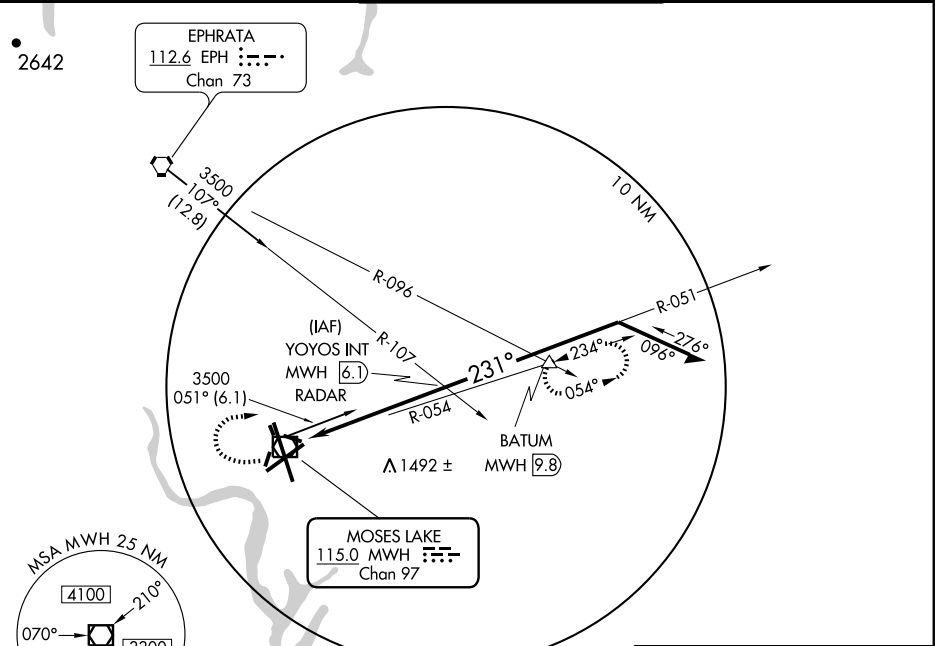
VOR RWY 22

MOSES LAKE/GRANT COUNTY INTL (MWH)

▼
▲

MISSED APPROACH: Climbing right turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS 119.05	GRANT COUNTY APP CON ★ 126.4 379.95	GRANT COUNTY TOWER ★ 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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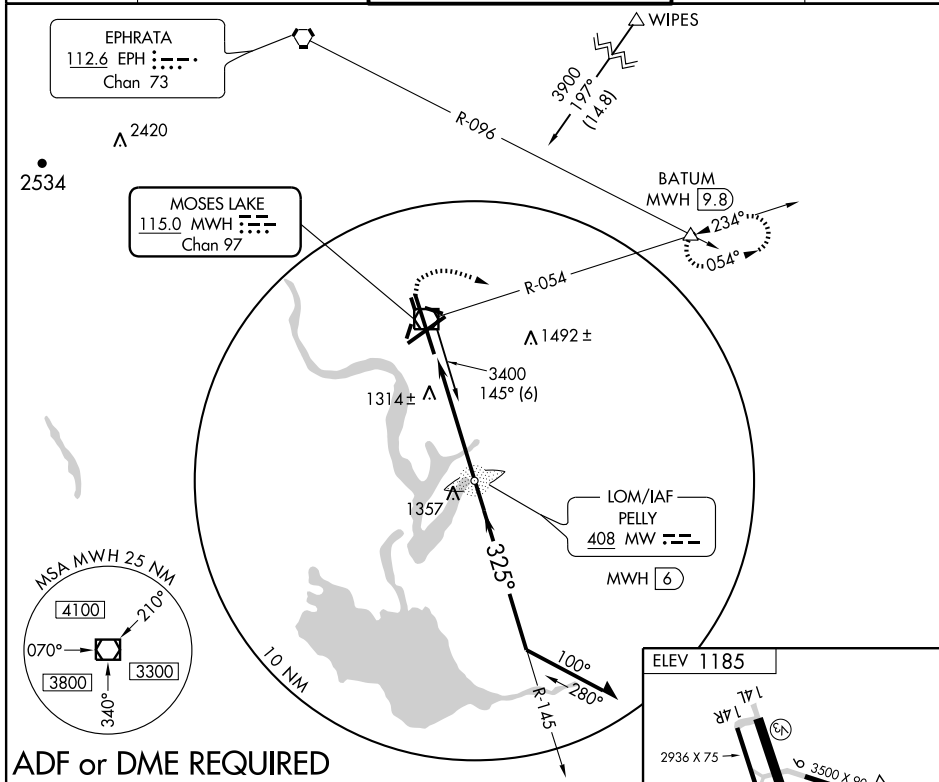


NW-1. 14 JAN 2010 to 11 FEB 2010

VOR/DME MWH 115.0 Chan 97	APP CRS 325°	Rwy Idg 13503 TDZE 1164 Apt Elev 1185
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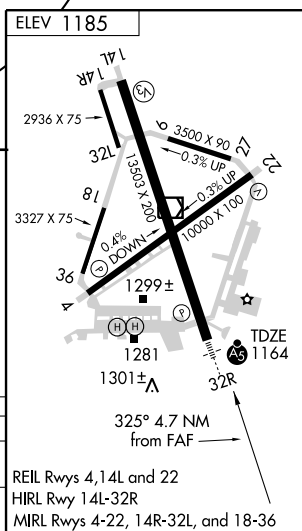
VOR RWY 32R
MOSES LAKE/GRANT COUNTY INTL (MWH)

			MISSED APPROACH: Climbing right turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.		
ATIS 119.05	GRANT COUNTY APP CON ★ 126.4 379.95	GRANT COUNTY TOWER ★ 118.25 (CTAF) 128.0 257.8		GND CON 121.9	UNICOM 122.95



The diagram illustrates the Pelly LOM MWH 6 approach procedure. It shows a VOR/DME station at the start of the approach, followed by a 1.3 NM segment, then a 4.7 NM segment leading to the Pelly LOM MWH 6. The final segment is a 145° turn to a 2800 foot altitude, with a 325° turn back to the 2600 foot altitude. A note indicates to remain within 10 NM.

CATEGORY	A	B	C	D
S-32R	1620/24	456 (500-½)	1620/40 456 (500-¾)	1620/50 456 (500-1)
CIRCLING	1680-1	495 (500-1)	1680-1½ 495 (500-1½)	1740-2 555 (600-2)



AIRPORT DIAGRAM

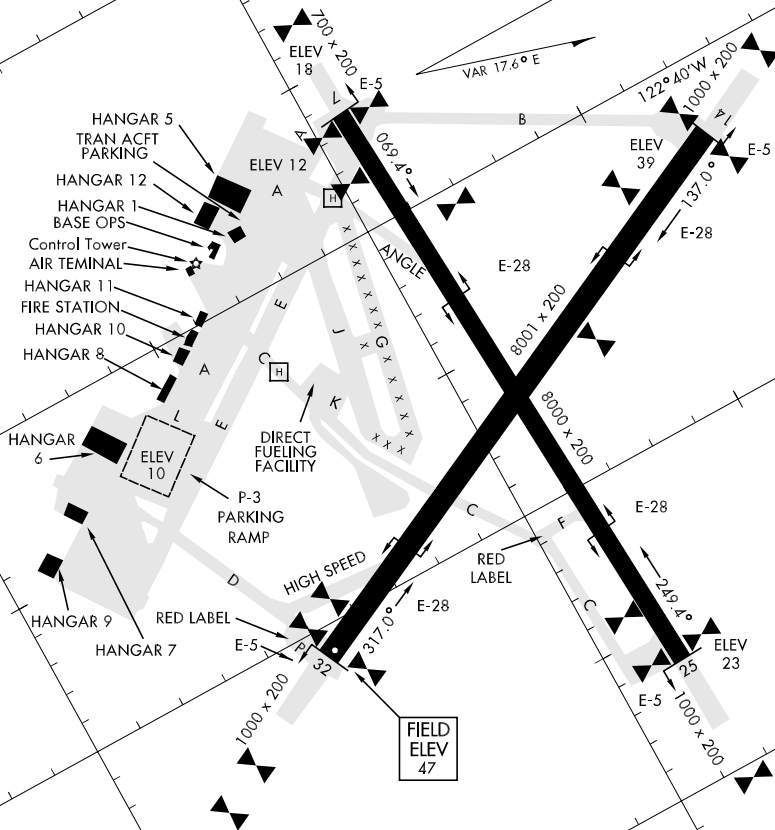
AFD-451 [USN]

OAK HARBOR, WASHINGTON

ATIS 134.15 281.5
WHIDBEY TOWER
127.9 340.2
GND CON
121.75 336.4
CINC DEL
135.1 379.9

APRIL 2008
ANNUAL RATE OF CHANGE
0.2°W

NW-1, 14 JAN 2010 to 11 FEB 2010



RWY 7-25
PCN 45 R/B/W/T
RWY 14-32
PCN 73 R/B/W/T

AIRPORT DIAGRAM

OAK HARBOR, WASHINGTON

TACAN NUW Chan 85	APCH CRS 058°	Rwy Idg TDZE Arpt Elev 8000 25 47
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JAL-451 [USN]

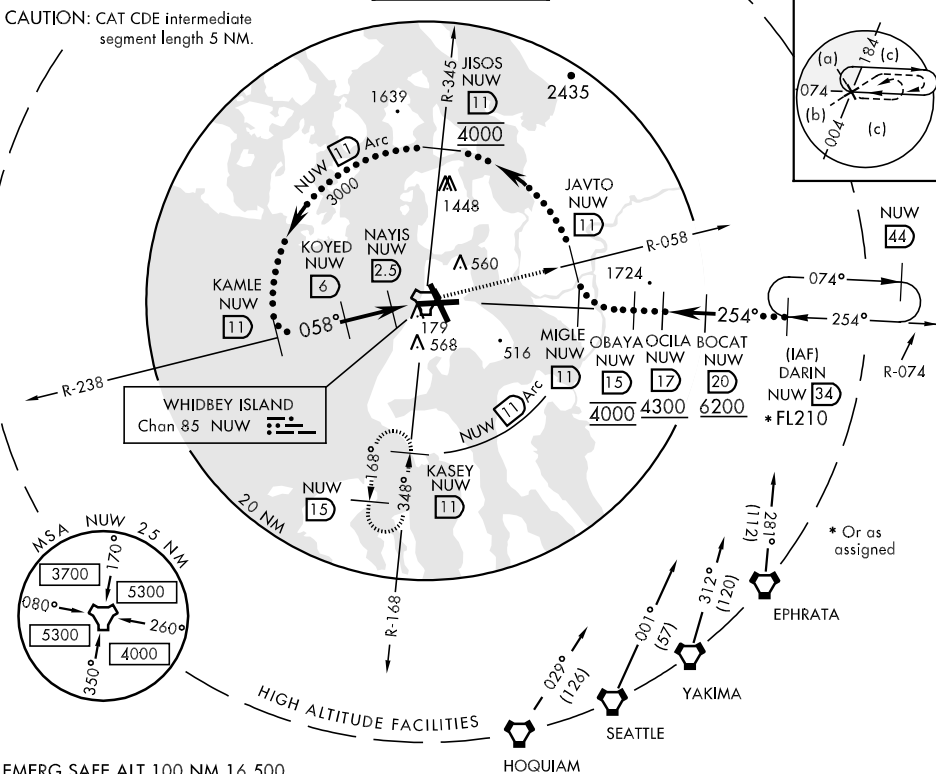
WHIDBEY ISLAND NAS (AULT FLD) (NUW)



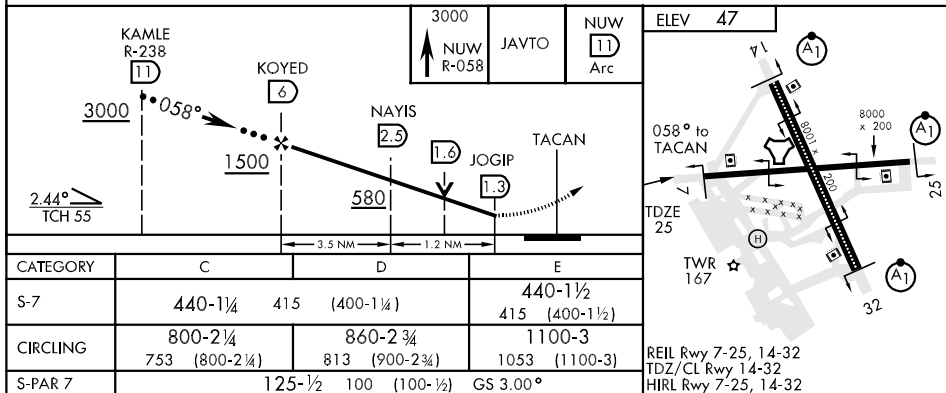
MISSED APPROACH: Climb to 3000 via R-058 to JAVTO, then arc SE of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 118.2 285.65 EAST WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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CAUTION: CAT CDE intermediate segment length 5 NM.



EMERG SAFE ALT 100 NM 16,500



OAK HARBOR, WASHINGTON

48°21'N-122°39'W

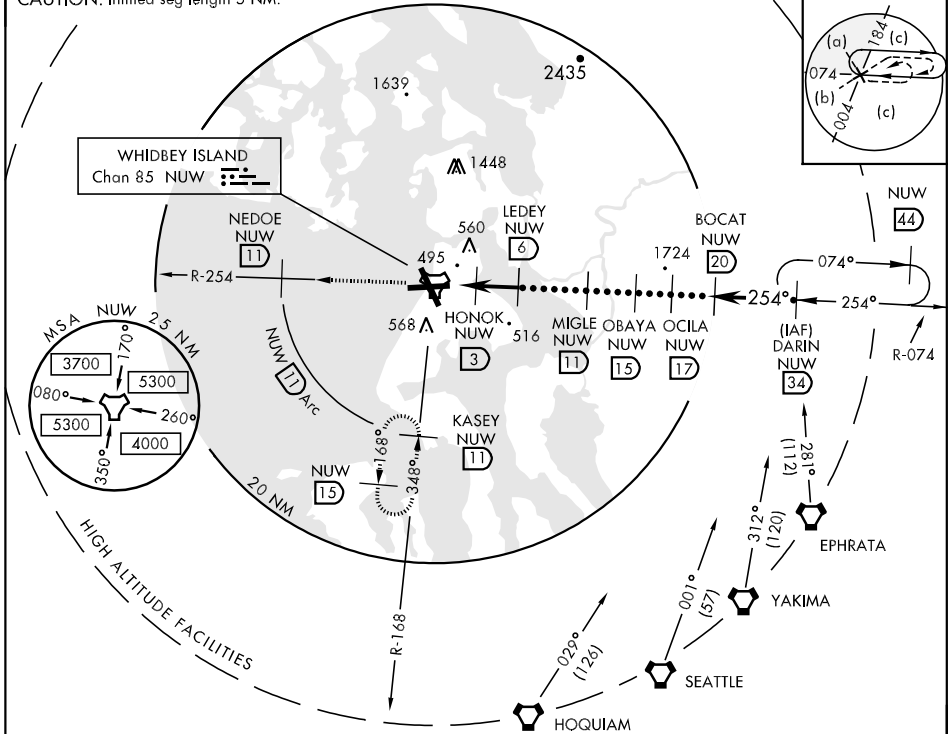
WHIDBEY ISLAND NAS (AULT FLD) (NUW)

ATIS		WHIDBEY APP CON		WHIDBEY TOWER		GND CON		CLNC DEL		ASR/PAR
134.15	281.5	120.7	270.8	127.9	340.2	121.75	336.4	135.1	379.9	

[illegible]

TACAN NUW Chan 85	APCH CRS 254°	Rwy Idg 8000 TDZE 28 Arpt Elev 47	JAL-451 [USN]	WHIDBEY ISLAND NAS (AULT FLD) (NUW)		
▼ * When ALS inop, increase vis CAT C to 2 miles, CAT D to 2¼ miles, CAT E to 2 ½ miles. ** When ALS inop, increase vis CAT CDE to ¾ miles.			ALSF-1 A1	MISSED APPROACH: Climb to 3000 via R-254 to NEDOE, then arc SW of NUW TACAN via 11 DME Arc to KASEY and hold.		
ATIS 134.15 281.5		WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR

CAUTION: intmed seg length 5 NM.



EMERG SAFE ALT 100 NM 16,500

Diagram showing a flight path from TACAN to DARIN R-074. The path is defined by a series of waypoints: TACAN, KIGVE (1.7), HONOK (2.8), LEDEY (3), MIGLE (11), OBAYA (15), OCILA (17), BOCAT (20), and DARIN R-074 (34). The path is a series of connected line segments. Altitudes are marked at various points: 840, 11500, 3000, 4000, 4300, 6200. A 254° bearing is indicated from BOCAT to DARIN. A 3.38° TCH 55 is noted.

3000	NUW R-254	NEDOE	NUW 11 Arc	BOCAT	NUW 20	DARIN R-074	NUW 34
1.3 NM 3 NM							
CATEGORY	C	D	E				
S-25 *	760-1½ 732 (800-1½)	760-1¾ 732 (800-1¾)	760-2 732 (800-2)				
CIRCLING	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)				
S-PAR 25 **	228-½	200 (200-½)	GS 3.00°				

Diagram showing a runway intersection. A horizontal runway (Rwy 7-25, 14-32) intersects with a diagonal runway (Rwy 14-32, 32). The intersection is marked with a star and labeled "TDZE 28". A tower (TWR 167) is located near the intersection. A 254° bearing is indicated from the intersection to TACAN. A 3.38° TCH 55 is noted.

TACAN NUW Chan 85	APCH CRS 311°	Rwy Idg 8001 TDZE 47 Arpt Elev 47
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JAL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (NUW)

T * When ALS inop, increase vis CAT C to 1 3/4 miles, CAT D to 2 miles, CAT E to 2 1/4 miles.

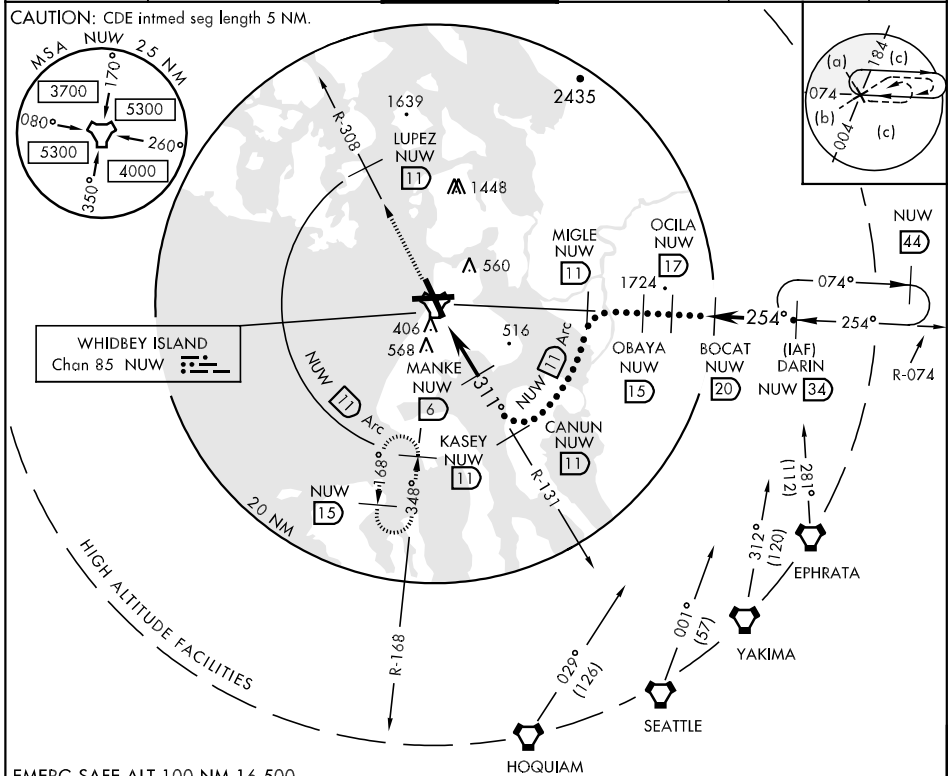
** When ALS inop, increase vjs CAT CDE to $\frac{3}{4}$ mile.



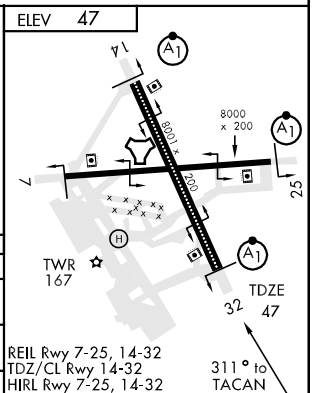
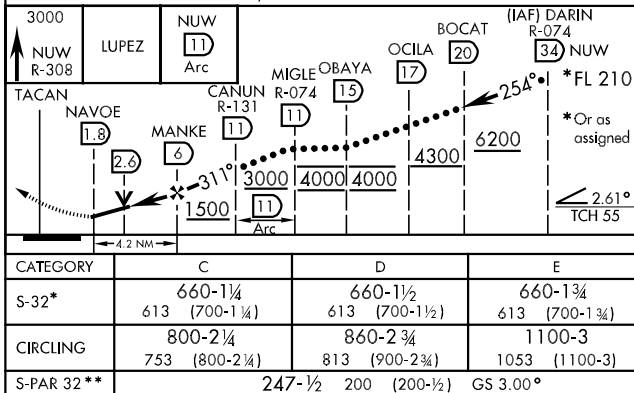
MISSED APPROACH: Climb to 3000 via R-308 to LUPEZ, then arc W of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS		WHIDBEY APP CON		WHIDBEY TOWER		GND CON		CLNC DEL		ASR/PAR
134.15	281.5	120.7	270.8 EAST	127.9	340.2	121.75	336.4	135.1	379.9	
		118.2	285.65 WEST							

CAUTION: CDE intmed seq length 5 NM.



EMERG SAFE ALT 100 NM 16,500



LOC I-NUW 110.1	APCH CRS 137°	Rwy Idg 8001 TDZE 39 Arpt Elev 47
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AL-451 [USN]

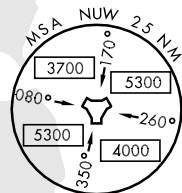
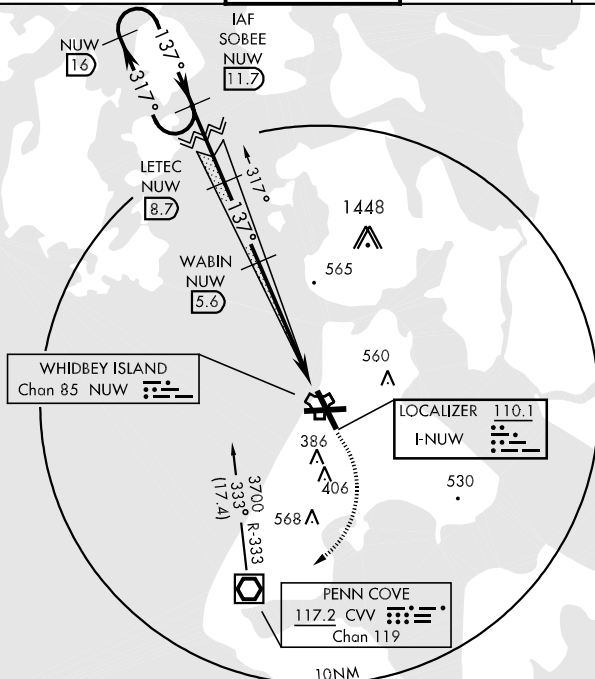
WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

▼ * When ALS inop, increase vis CAT ABCDE to $\frac{3}{4}$ mile.
 ** When ALS inop, increase vis CAT ABCDE to 1 mile.
 *** When ALS inop, increase vis CAT ABCDE to $\frac{1}{2}$ mile.



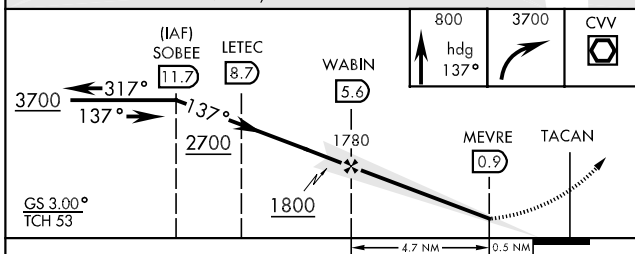
MISSED APPROACH: Climb to 800 via hdg 137°, then climbing right turn to 3700, direct CVV VOR/DME, then via CVV R-333 to SOBEE and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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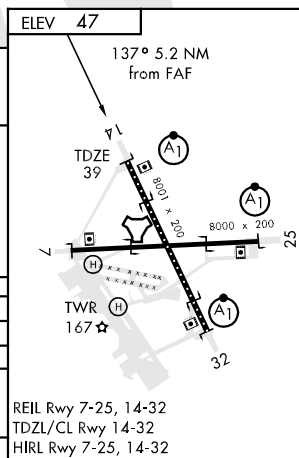


DME REQUIRED

EMERG SAFE ALT 100 NM 16,500



CATEGORY	A	B	C	D	E
S-ILS 14*	239- $\frac{1}{2}$ 200 (200- $\frac{1}{2}$)				
S-LOC 14**	300- $\frac{1}{2}$ 261 (300- $\frac{1}{2}$)	300- $\frac{3}{4}$ 261 (300- $\frac{3}{4}$)			
CIRCLING	780-1 733 (800-1)	800-1 $\frac{1}{4}$ 753 (800-1 $\frac{1}{4}$)	800-2 $\frac{1}{4}$ 753 (800-2 $\frac{1}{4}$)	860-2 $\frac{3}{4}$ 813 (900-2 $\frac{3}{4}$)	1100-3 1053 (1100-3)
S-PAR 14***	139- $\frac{1}{4}$ 100 (100- $\frac{1}{4}$) GS 3.0°				



LOC I-NUW 110.1	APCH CRS 137°	Rwy ldg TDZE Arpt Elev 8001 39 47
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AL-451 [USN]

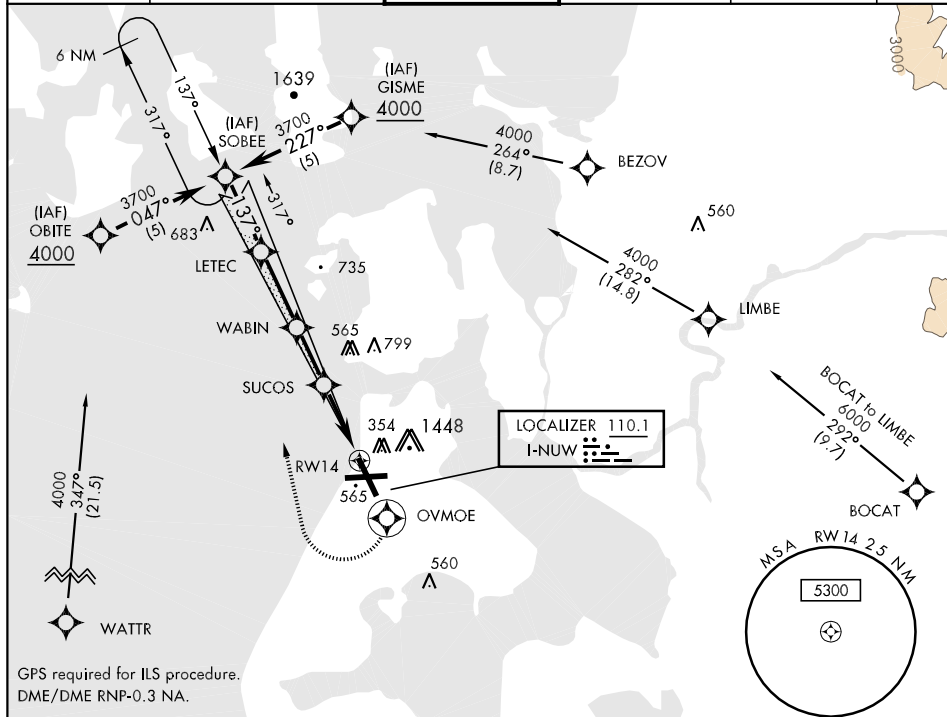
WHIDBEY ISLAND NAS (AULT FLD) (NUW)

▼ * When ALS inop, increase vis ALL CAT to $\frac{3}{4}$ mile.
 ** When ALS inop, increase vis CAT AB to 1 mile, CAT C to $1\frac{1}{4}$ miles, CAT D to $1\frac{1}{2}$ miles, CAT E vis to $1\frac{3}{4}$ miles.



MISSED APPROACH: Climb to 3700 direct OVMOE, then climbing right turn direct SOBEE and hold.

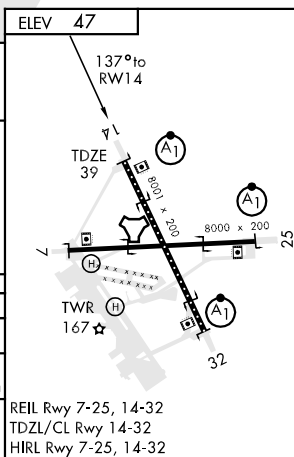
ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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GPS required for ILS procedure.
 DME/DME RNP-0.3 NA.

EMERG SAFE ALT 100 NM 16,500

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PENN COVE ONE DEPARTURE (CVV1.CVV)

WHIBDEY ISLAND VORTIS (VORTIS.FED) (RWY07)
OAK HARBOR, WASHINGTON

ATIS 134.15 281.5
CLNC DEL
135.1 379.9
GND CON
121.75 336.4
WHIBDEY TOWER
127.9 340.2
WHIBDEY DEP CON
120.7 270.8 EAST
118.2 285.65 WEST

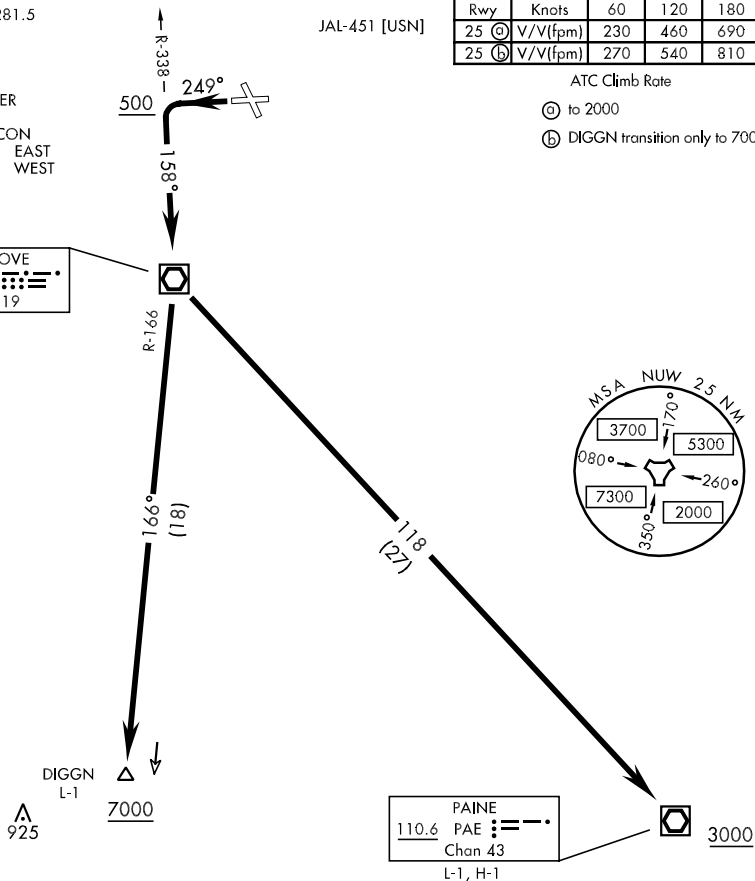
JAL-451 [USN]

Rwy	Knots	60	120	180	240
25 (A) V/V(fpm)		230	460	690	920
25 (B) V/V(fpm)		270	540	810	1080

ATC Climb Rate

- (A) to 2000
- (B) DIGGN transition only to 7000

PENN COVE
117.2 CVV
Chan 119



NW-1, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 25: Climb to 500 feet on heading 249°. Then climbing left turn to intercept CVV R-338 to CVV VOR/DME. Cross CVV VOR/DME at or above 2000 feet. Thence....

....Via assigned transition or fly heading 158° and expect vectors to join assigned route.

DIGGN TRANSITION (CVV1.DIGGN): Via CVV R-166 to DIGGN, cross DIGGN at or above 7000 feet.

PAINE TRANSITION (CVV1.PAE): Via CVV R-118 to PAE VOR/DME. Cross PAE VOR/DME at or above 3000 feet.

APCH CRS **249°**
Rwy Idg **8000**
TDZE **28**
Arpt Elev **47**

AL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (NUW)

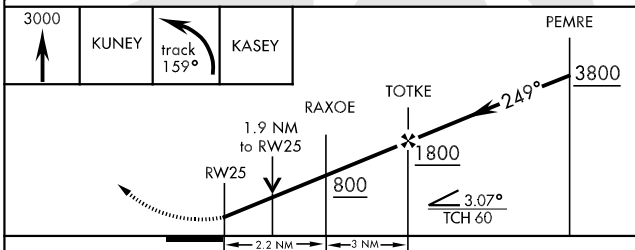
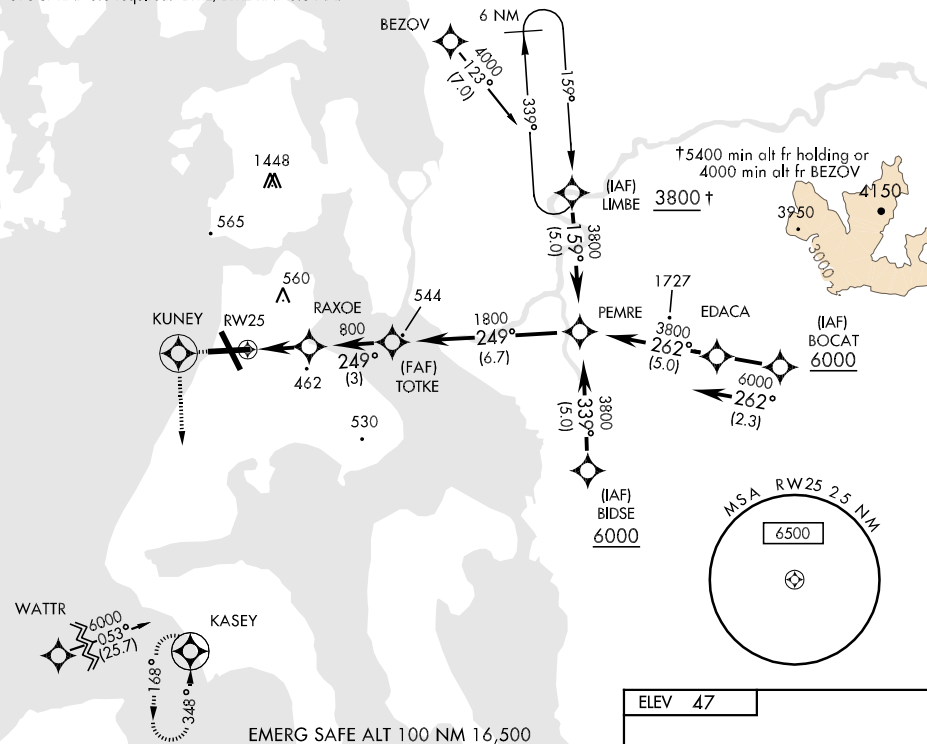
✚ When ALS inop, increase vis CAT AB to 1 mile, CAT C to 2 miles, CAT D to 2¼ miles, CAT E to 2½ miles. PAR to ¾ mile.



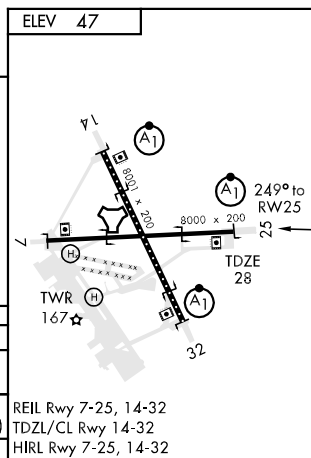
MISSED APPROACH: Climb to 3000 direct KUNEY, then turn left via track 159° to KASEY and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.



CATEGORY	A	B	C	D	E
LNAV MDA*	700-½ 672 (700-½)	700-1½ 672 (700-1½)	700-1½ 672 (700-1½)	700-1¾ 672 (700-1¾)	700-2 672 (700-2)
CIRCLING	780-1 733 (800-1)	800-1¼ 753 (800-1¼)	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)
S-PAR 25*	228-½	200	(200-½)	GS 3.00°	



TACAN NUW Chan 85	APCH CRS 058°	Rwy Idg 8000 TDZE 25 Arpt Elev 47
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AL-451 [USN]

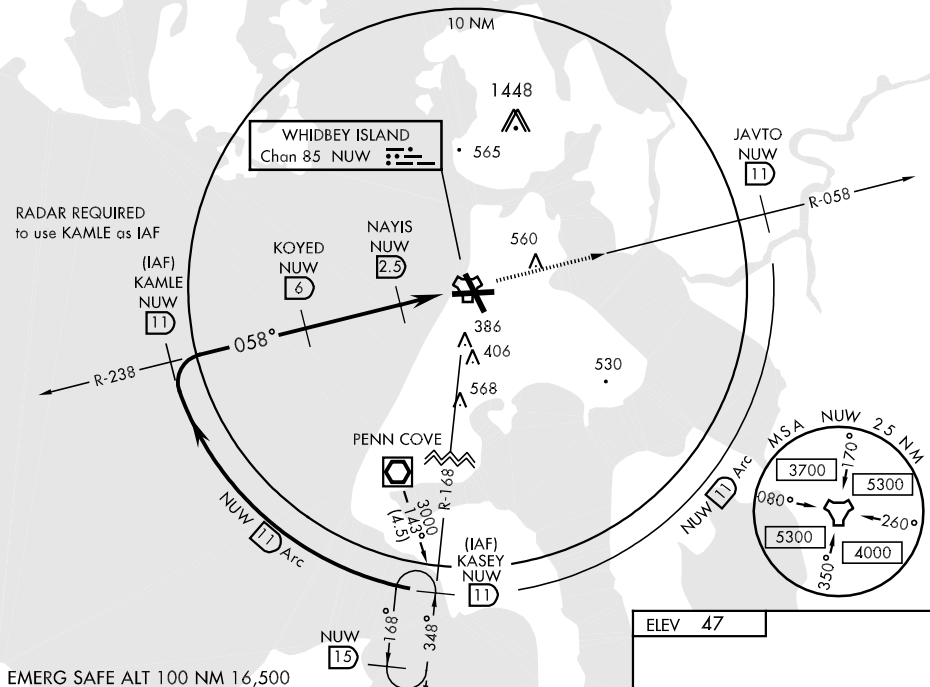
WHIDBEY ISLAND NAS (AULT FLD) (NUW)



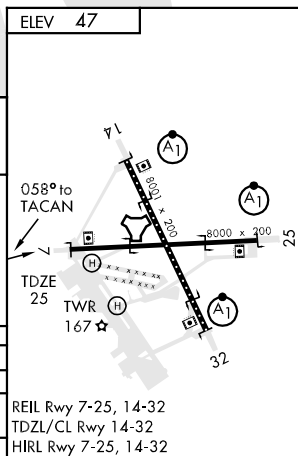
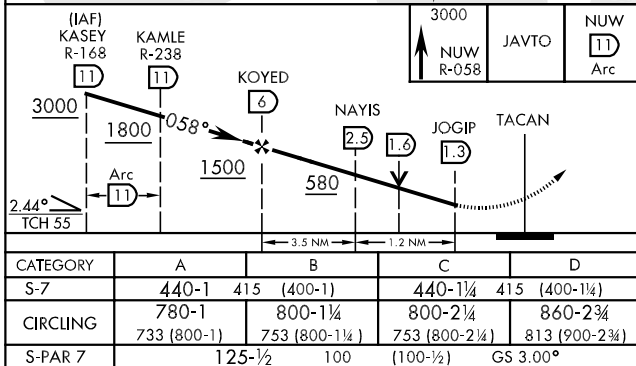
MISSED APPROACH: Climb to 3000 via R-058 to JAVTO, then arc SE of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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CAUTION:
CAT CD intmd seg length 5 NM



EMERG SAFE ALT 100 NM 16,500



TACAN NUW Chan 85	APCH CRS 141°	Rwy ldg 8001 TDZE 39 Arpt Elev 47	AL-451 [USN]	WHIDBEY ISLAND NAS (AULT FLD) (NUW)
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▼ *When ALS inop, increase vis CAT AB to 1 mile,
CAT C to 1½ miles, CAT D to 1¾ miles.

** When ALS inop, increase vis CAT ABCD to ½ mile.

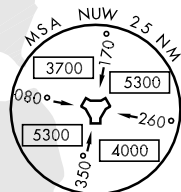
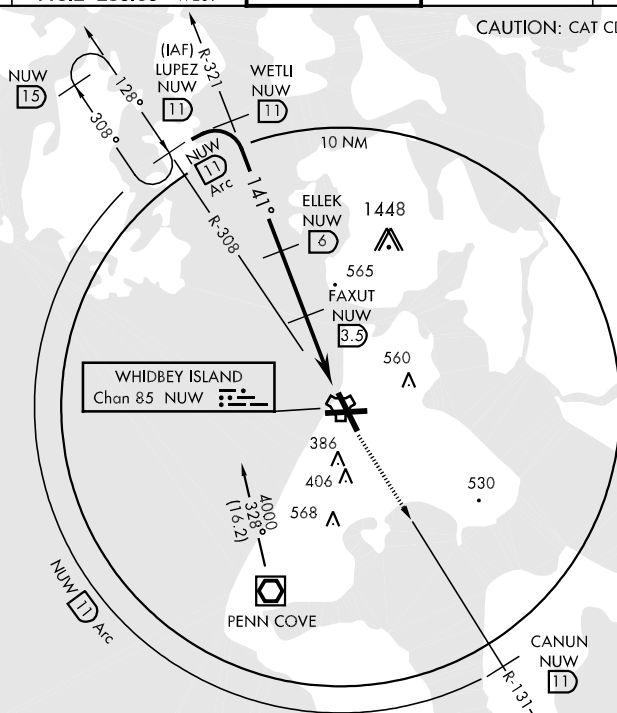
ALSF-1



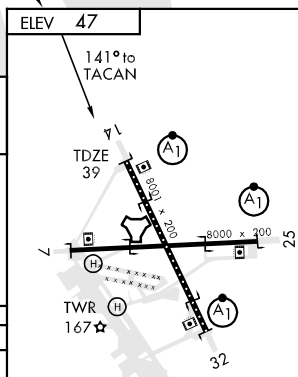
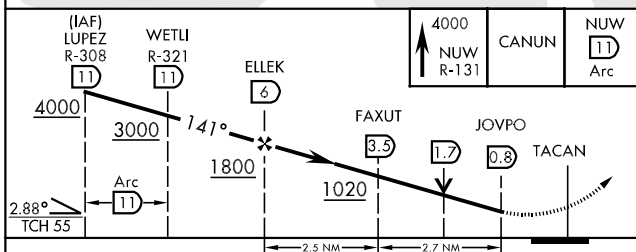
MISSED APPROACH: Climb to 4000 via R-131 to CANUN, then arc SW of NUW TACAN via 11 DME Arc to LUPEZ and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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CAUTION: CAT CD intmd seg length 5 NM.



EMERG SAFE ALT 100 NM 16,500



CATEGORY	A	B	C	D
S-14*	620-½ 581 (600-½)	620-1 581 (600-1)	620-1½ 581 (600-1½)	620-2 581 (600-2)
CIRCLING	780-1 733 (800-1)	800-1½ 753 (800-1½)	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)
S-PAR 14**	139-¼ 100	(100-¼)	GS 3.00°	

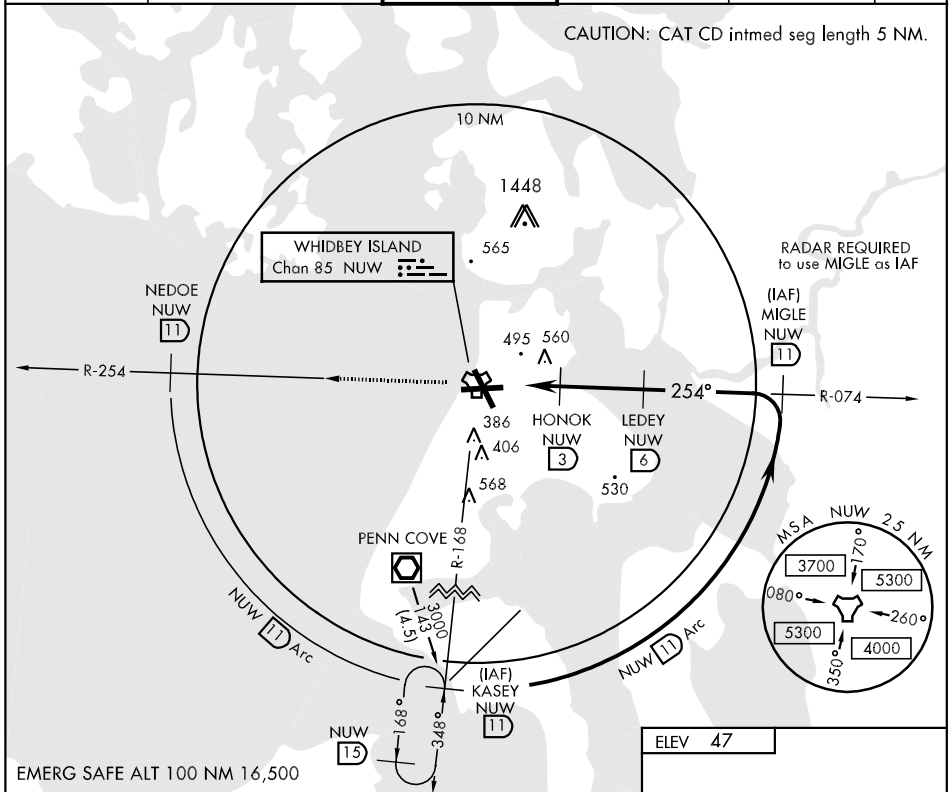
REIL Rwy 7-25, 14-32
TDZL/CL Rwy 14-32
HIRL Rwy 7-25, 14-32

TACAN NUW Chan 85	APCH CRS 254°	Rwy Idg 8000 TDZE 28 Arprt Elev 47	AL-451 [USN]	WHIDBEY ISLAND NAS (AULT FLD) (NUW)
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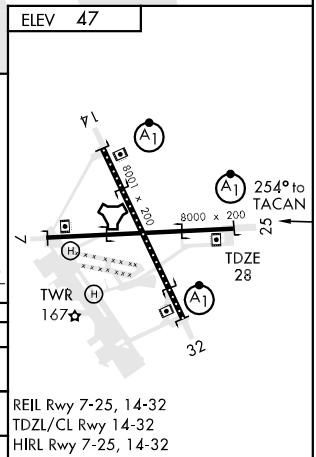
▼ *When ALS inop, increase vis CAT AB to 1 mile, CAT C to 2 miles, CAT D to 2 1/4 miles. ** When ALS inop, increase vis CAT ABCD to 3/4 mile.	ALSF-1 	MISSED APPROACH: Climb to 3000 via R-254 to NEDOE, then arc SW of NUW TACAN via 11 DME Arc to KASEY and hold.
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ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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CAUTION: CAT CD intmd seg length 5 NM.



3000 NUW R-254	NEDOE	NUW 11 Arc	(IAF) MIGLE R-074 11	(IAF) KASEY R-168 11
TACAN	KIGVE 1.7	HONOK 3	LEDEY 6	
	1.3 NM	3 NM		
CATEGORY	A	B	C	D
S-25 *	760-1/2	732 (800-1/2)	760-1 1/2 732 (800-1 1/2)	760-1 1/4 732 (800-1 1/4)
CIRCLING	780-1 733 (800-1)	800-1 1/4 753 (800-1 1/4)	800-2 1/4 753 (800-2 1/4)	860-2 3/4 813 (900-2 3/4)
S-PAR 25 **	228-1/2	200	(200-1/2)	GS 3.00°



TACAN NUW
Chan 85

APCH CRS
311°

Rwy Idg	800
TDZE	47
Arpt Elev	47

AL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (NUW)

T * When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1 ¾ Miles, CAT D to 2 miles.
 ** When ALS inop, increase vis CAT ABCD to ¾ mile.

ALSF-1

MISSED APPROACH: Climb to 3000 via R-308 to LUPEZ, then Arc SW of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS
134.15 281.5

WHIDBEY APP CON
120.7 270.8 EAST
118.2 285.65 WEST

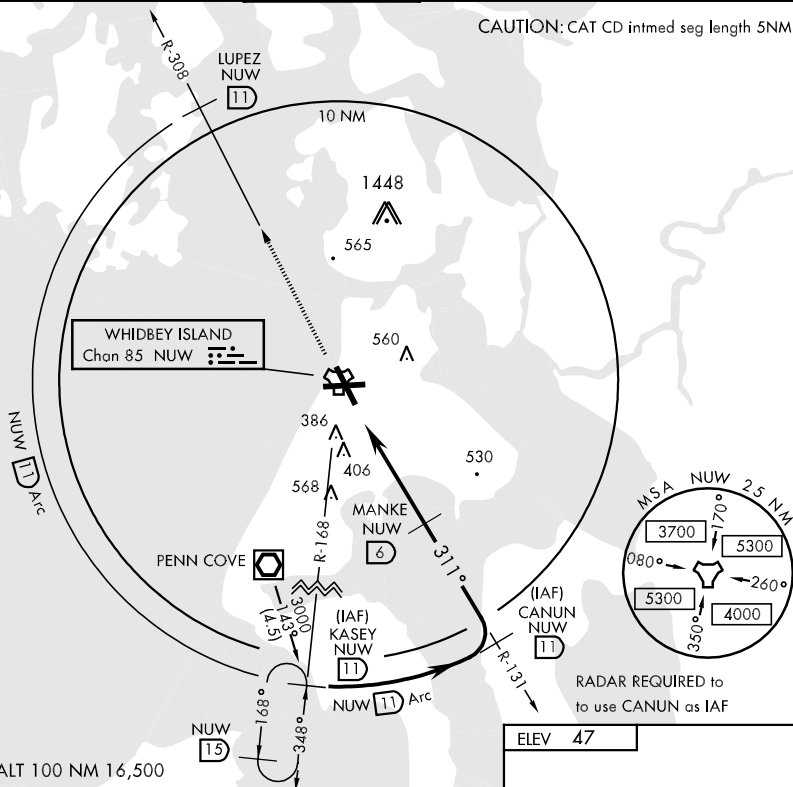
WHIDBEY TOWER
127.9 340.2

GND CON
121.75 336.4

CLNC DEL
135.1 379.9

ASR/PAR

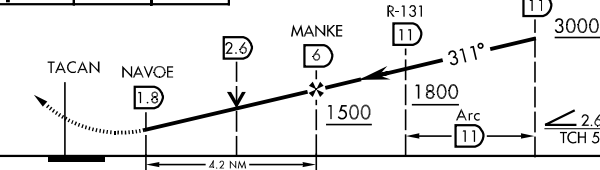
CAUTION: CAT CD intmed seg length 5NM.



EMERG SAFE ALT 100 NM 16,500

ELEV 47

3000 NUW R-308	LUPEZ	NUW  Arc
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CATEGORY	A	B	C	D
S-32*	660-½ 613 (700-½)		660-1¼ 613 (700-1¼)	660-1½ 613 (700-1½)
CIRCLING	780-1 733 (800-1)	800-1¼ 753 (800-1¼)	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)
S-PAR 32**	247-½	200	(200-½)	GS 3.00°

TWR
167

1



275

REIL Rwy 7-25, 14-32
TDZL/CL Rwy 14-32
HIRL Rwy 7-25, 14-32

TACAN

10

1

OAK HARBOR, WASHINGTON

48° 21' N-122° 39' W

WHIDBEY ISLAND NAS (AULT FLD) (NUW)

07186

TACAN LBRM CO

APP CRS	Rwy Idg	2758
071°	TDZE	193
	Apt Elev	193

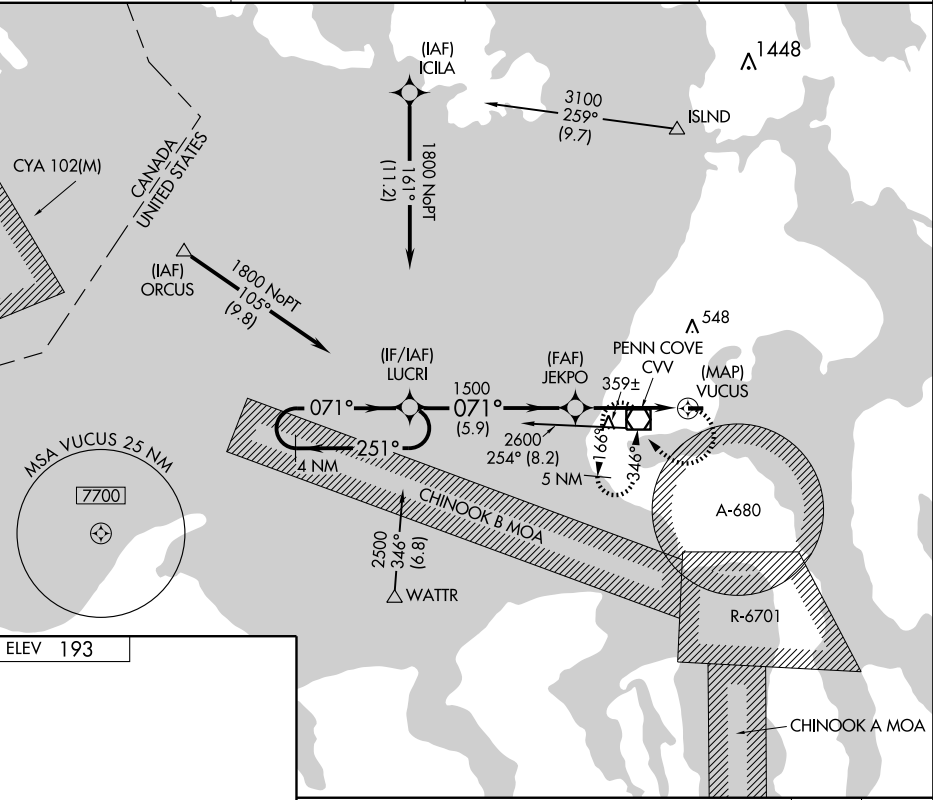
RNAV (GPS) RWY 7

OAK HARBOR/AJ EISENBERG (OKH)

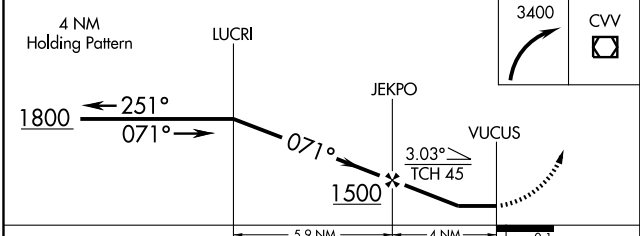
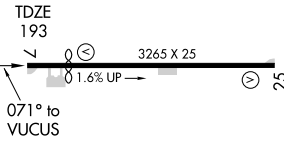
V DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
A Circling north of Rwy 7-25 NA at night.
ASR When local altimeter setting not received, use Whidbey Island NAS altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climbing right turn to 3400 direct CVV VOR/DME and hold, continue climb-in-hold to 3400.

AWOS-3 132.775	WHIDBEY ATIS 134.15 281.5	WHIDBEY APP CON 118.2 285.65	UNICOM 122.8 (CTAF) U
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ELEV 193



LURL Rwy 7-25 **U**

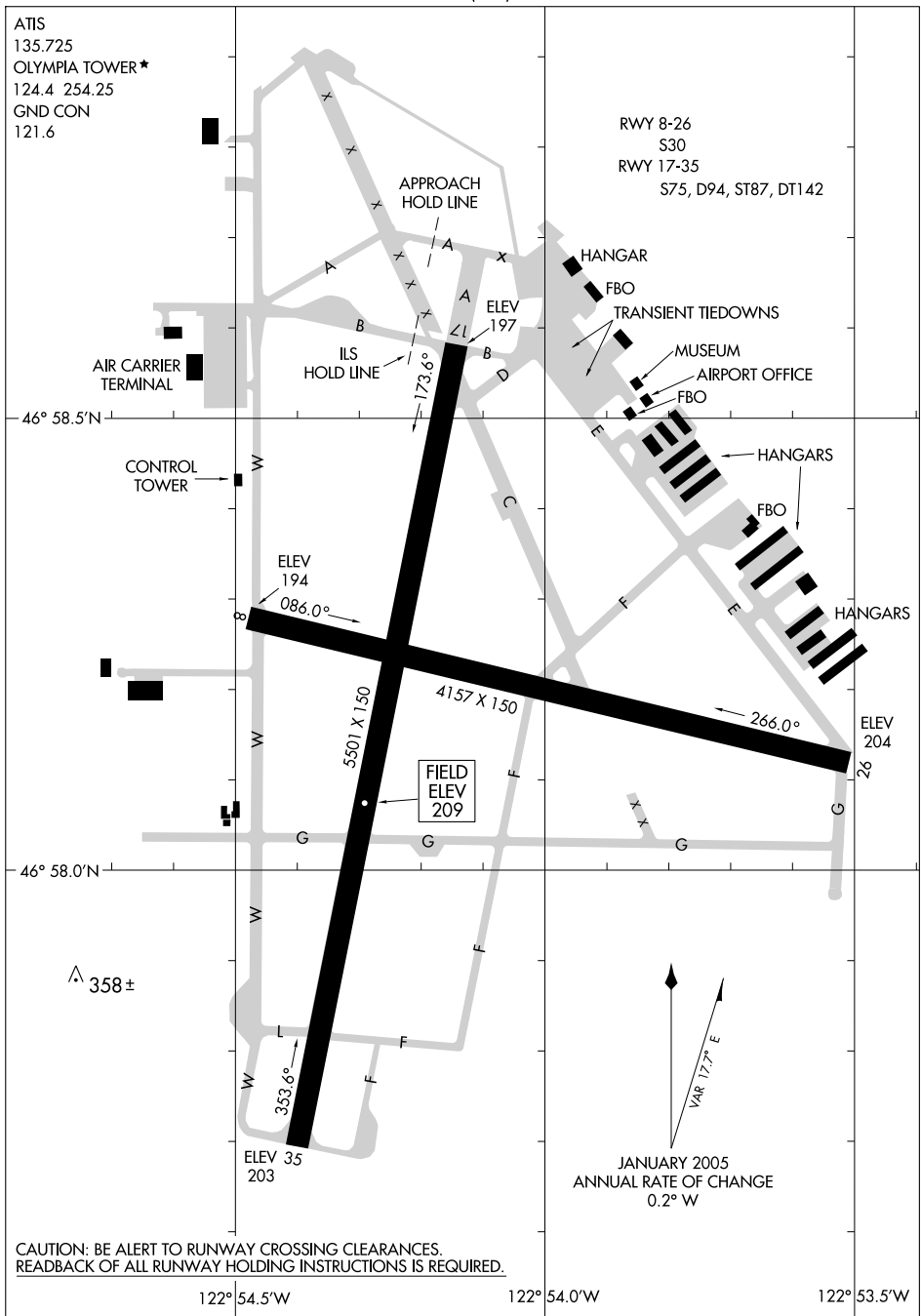
CATEGORY	A	B	C	D
LNAV MDA	620-1	427 (500-1)	NA	NA
CIRCLING	620-1	660-1	NA	NA
	427 (500-1)	467 (500-1)		

NW-1. 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-645 (FAA)

OLYMPIA RGNL (OLM)
OLYMPIA, WASHINGTON



NW-1. 14 JAN 2010 to 11 FEB 2010

LOC I-OLM <u>111.9</u>	APP CRS 172°	Rwy Idg 5501 TDZE 207 Apt Elev 209
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ILS or LOC RWY 17

OLYMPIA RGNL (OLM)

- T** RADAR or DME required. When local altimeter setting not received, use Sanderson Field altimeter setting and increase all DA 53 feet and all MDA 60 feet; increase circling visibility Cat D $\frac{1}{4}$ mile. **A** For inoperative MALSR, when using Sanderson Field altimeter setting, increase S-ILS 17 visibility to 1 mile.

MALSR

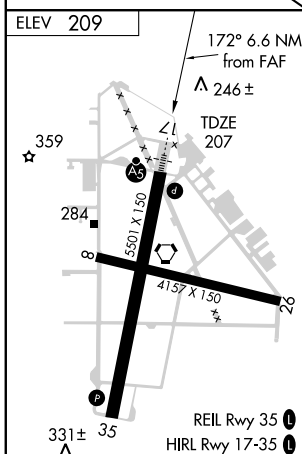
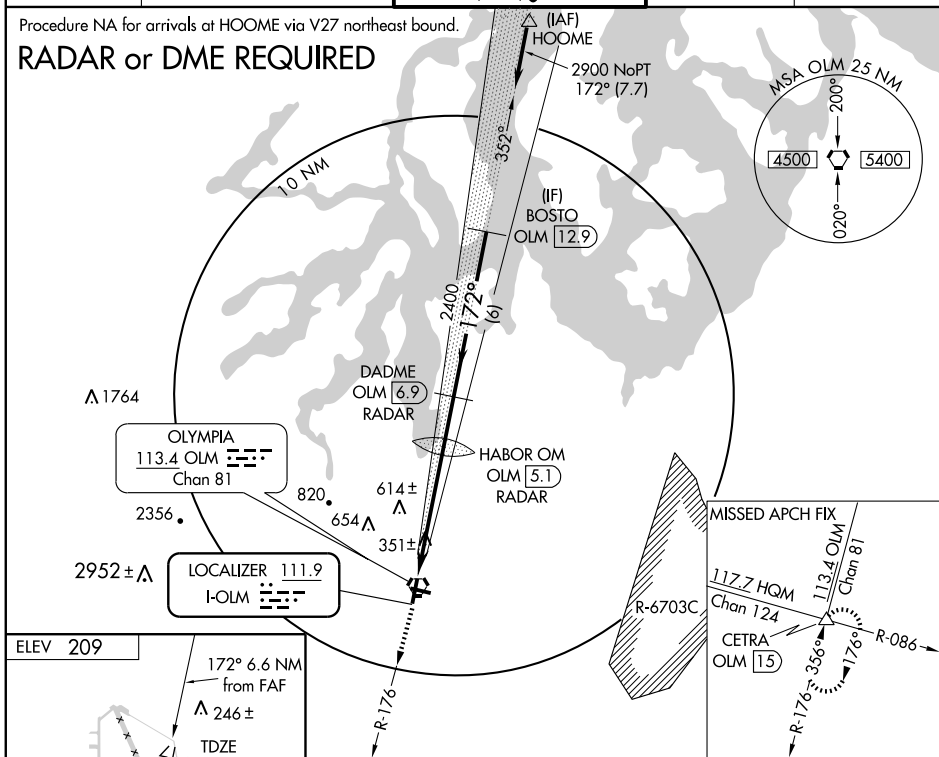


MISSED APPROACH: Climb to 1400, then continue climb to 5500 via OLM VORTAC R-176 to CETRA INT/OLM 15 DME and hold, continue climb-in-hold to 5500.

ATIS 135.725	SEATTLE APP CON 121.1 290.9	OLYMPIA TOWER★ 124.4 (CTAF) 0 254.25	GND CON 121.6	UNICOM 122.95
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Procedure NA for arrivals at HOOME via V27 northeast bound.

RADAR or DME REQUIRED



1400 ↑
5500 ↑
CETRA △
OLM R-176

Habor OM OLM [5.1] RADAR
DADME OLM [6.9] RADAR
BOSTO OLM [12.9] RADAR

2400
172°
2900
2400
GS 3.00°
TCH 54

4.8 NM
1.8 NM
6 NM

<

RNAV (GPS) RWY 17

OLYMPIA RGNL (OLM)

WAAS CH 45599 W17A	APP CRS 172°	Rwy Idg TDZE Apt Elev	5501 207 209
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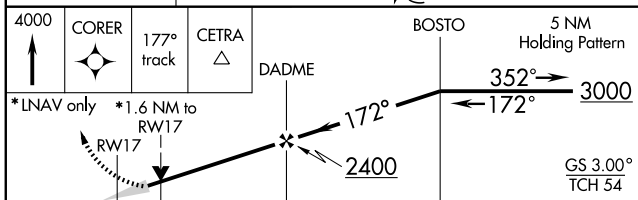
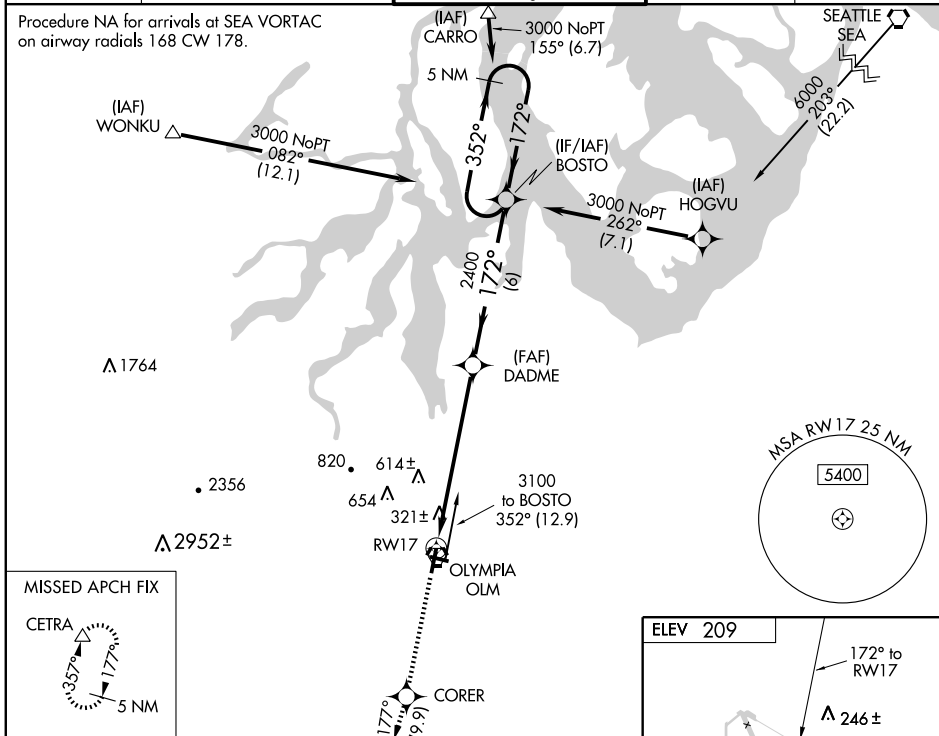
▼ DME/DME RNP-0.3 NA. For inoperative MALSR, increase LPV visibility all Cats to 1¼.
▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). When local altimeter setting not received, use Sanderson Field altimeter setting and increase all DA 53 feet and all MDA 60 feet; increase LPV and LNAV/VNAV visibility all Cats, LNAV Cts C/D and circling visibility Cts C/D ¼ mile. VDP and Baro-VNAV NA when using Sanderson Field altimeter setting.



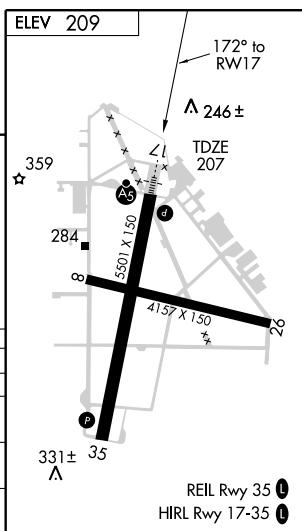
MISSED APPROACH: Climb to 4000 direct CORER and via 177° track to CETRA and hold, continue climb-in-hold to 4000.

ATIS 135.725	SEATTLE APP CON 121.1 290.9	OLYMPIA TOWER★ 124.4 (CTAF) 254.25	GND CON 121.6	UNICOM 122.95
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Procedure NA for arrivals at SEA VORTAC on airway radials 168 CW 178.



CATEGORY	A	B	C	D
LPV DA	590-¾ 383 (400-¾)			
LNAV/VNAV DA	636-1 429 (500-1)			
LNAV MDA	760-½ 553 (600-½)		760-1 553 (600-1)	760-1¼ 553 (600-1¼)
CIRCLING	760-1 551 (600-1)		820-1¾ 860-2 611 (700-1¾)	860-2 651 (700-2)



RNAV (GPS) RWY 35

OLYMPIA RGNL (OLM)

APP CRS 352°	Rwy Idg 5501
TDZE 208	
Apt Elev 209	

When local altimeter setting not received, use Sanderson Field altimeter setting and increase all MDAs 60 feet; increase visibility LNAV Cats C/D ¼ mile and circling Cat D ¼ mile.
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4000 direct BOSTO and hold, continue climb-in-hold to 4000.

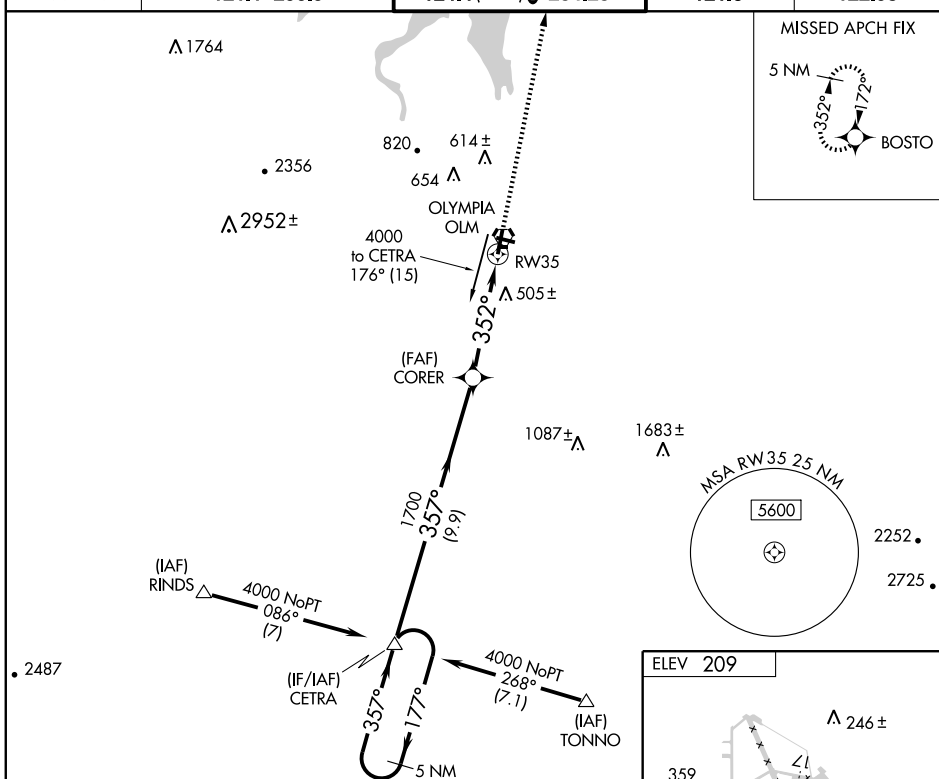
ATIS
135.725

SEATTLE APP CON
121.1 290.9

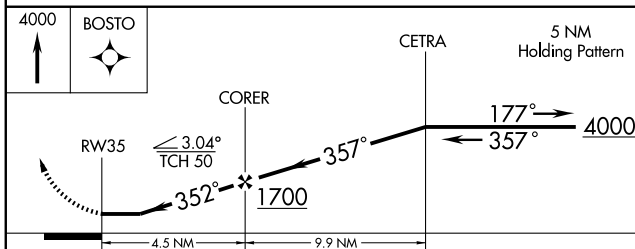
OLYMPIA TOWER★
124.4 (CTAF) 0 254.25

GND CON
121.6

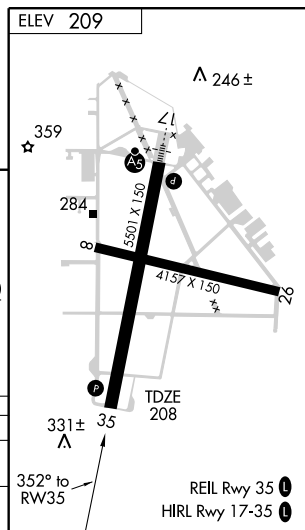
UNICOM
122.95



MISSED APCH FIX



CATEGORY	A	B	C	D
LNAV MDA	760-1	552 (600-1)	760-1½ 552 (600-1½)	760-1¾ 552 (600-1¾)
CIRCLING	760-1	551 (600-1)	820-1¾ 611 (700-1¾)	860-2 651 (700-2)



AL-645 (FAA)

VORTAC OLM 113.4 Chan 81	APP CRS 171°	Rwy Idg TDZE Apt Elev	N/A N/A 209
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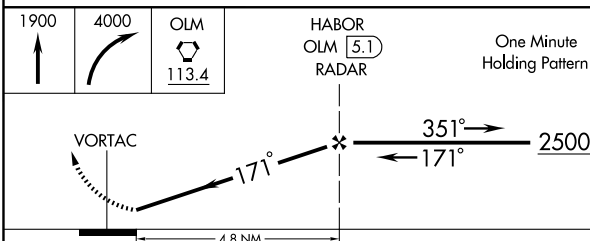
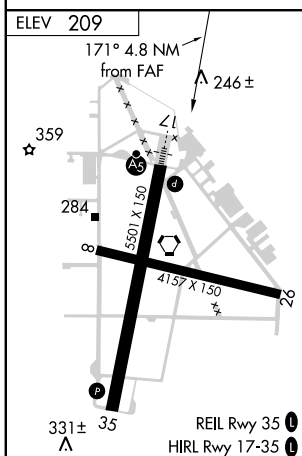
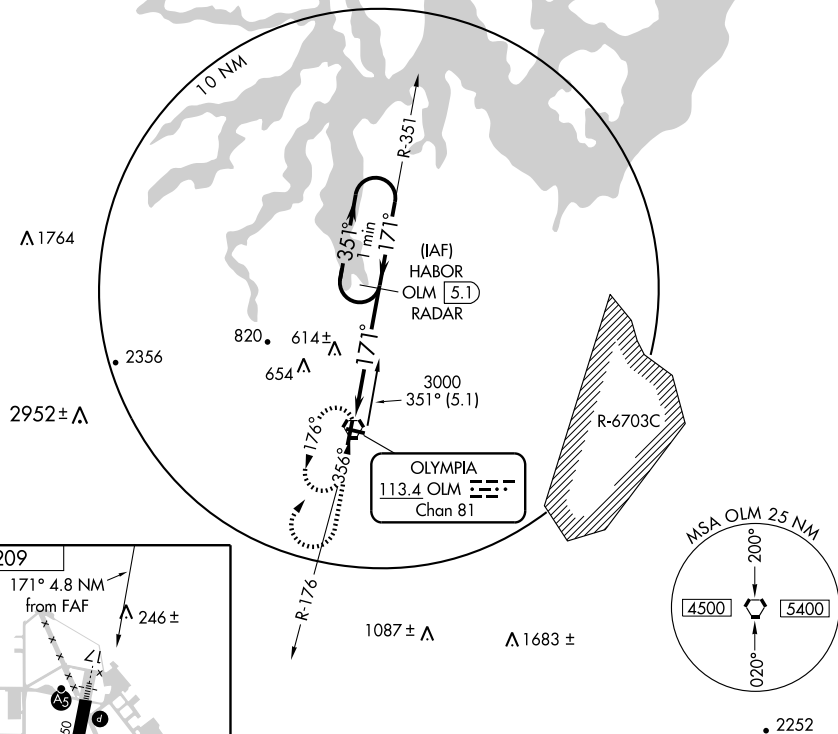
VOR-A
OLYMPIA RGNL (OLM)

T	When local altimeter setting not received, use Sanderson
A	Field altimeter setting and increase all MDA 60 feet. DME or RADAR required.

MISSED APPROACH: Climb to 1900 then climbing right turn to 4000 direct OLM VORTAC and hold, continue climb-in-hold to 4000.

ATIS 135.725	SEATTLE APP CON 121.1 290.9	OLYMPIA TOWER★ 124.4 (CTAF) 0 254.25	GND CON 121.6	UNICOM 122.95
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DME or RADAR REQUIRED



FAF to MAP 4.8 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	880-1 671 (700-1)		880-2 671 (700-2)	880-2½ 671 (700-2½)
Min:Sec	4:48	3:12	2:24	1:55	1:36					

NW-1. 14 JAN 2010 to 11 FEB 2010

AL-645 (FAA)

VORTAC OLM 113.4 Chan 81	APP CRS 356°	Rwy Idg 5501 TDZE 208 Apt Elev 209
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VOR/DME RWY 35
OLYMPIA RGNL (OLM)

T When local altimeter setting not received, use Sanderson Field altimeter setting and increase all MDAs 60 feet; increase visibility

A S-35 Cats C/D ¼ mile and circling Cat D ¼ mile.
Visibility reduction by helicopters NA.

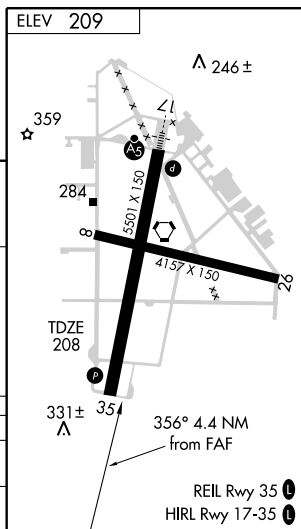
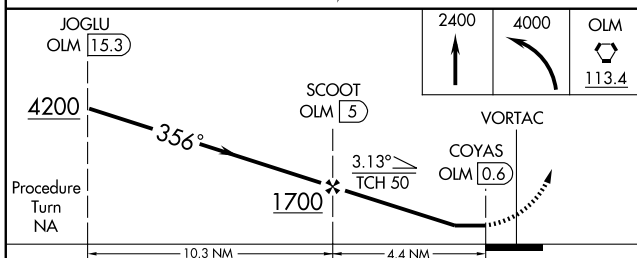
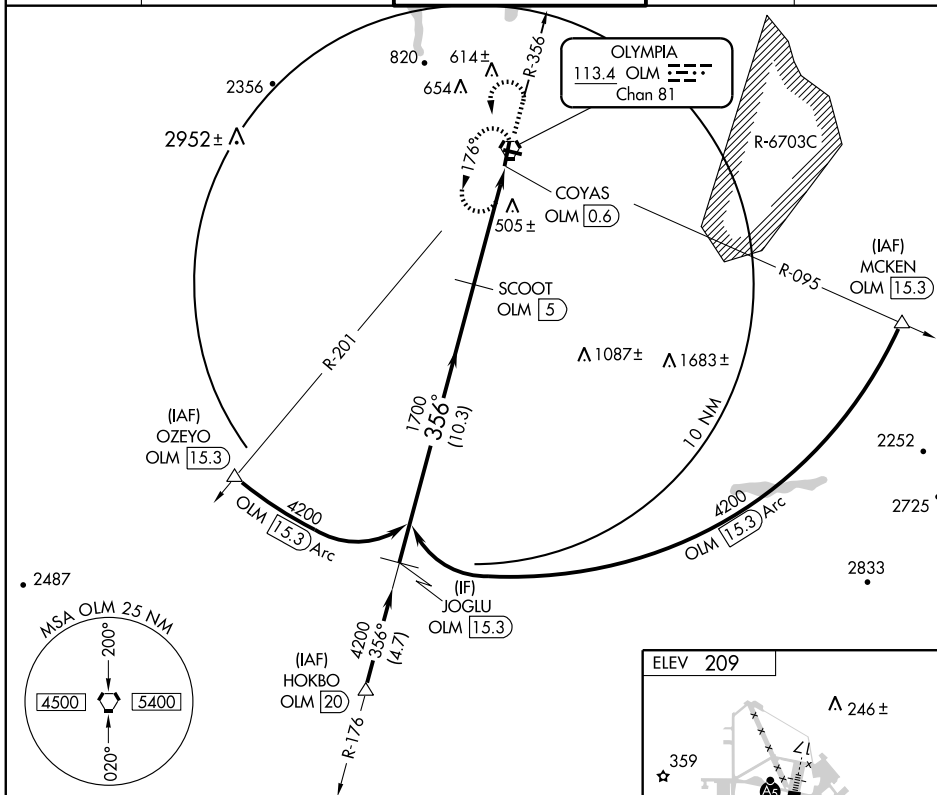
MISSED APPROACH: Climb to 2400, then climbing left turn to 4000 direct OLM VORTAC and hold, continue climb-in-hold to 4000.

ATIS
135.725

SEATTLE APP CON
121.1 290.9

OLYMPIA TOWER★
124.4 (CTAF) ● 254.25

GND CON
121.6

UNICOM
122.95

NW-1. 14 JAN 2010 to 11 FEB 2010

CATEGORY	A	B	C	D
S-35	760-1	552 (600-1)	760-1½ 552 (600-1½)	760-1¾ 552 (600-1¾)
CIRCLING	760-1	551 (600-1)	820-1¾ 611 (700-1¾)	860-2 651 (700-2)

YELM TWO DEPARTURE

SL-645 (FAA)

OLYMPIA RGNL (OLM)
OLYMPIA, WASHINGTON

ASOS 135.725

GND CON

121.6

OLYMPIA TOWER ★

124.4 (CTAF) 254.25

SEATTLE DEP CON

121.1 290.9

TATOOSH

112.2 TOU 
Chan 59

N48°17.99'-W124°37.62'

L-1, H-1

PAINE

110.6 PAE 
Chan 43

N47°55.19'-W122°16.66'

L-1, H-1

SEATTLE

116.8 SEA 
Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

TAKE-OFF MINIMUMS

Rwy 8, 26: NA- ATC

Rwy 17: Rwy 17, 300-2 or standard with minimum
climb of 706' per NM to 600.

Rwy 35: Standard

OLYMPIA

113.4 OLM 
Chan 81

N46°58.30'-W122°54.11'

L-1, H-1

McCHORD

109.6 TCM 
Chan 33

N47°08.86'-W122°28.50'

L-1

HOQUIAM

117.7 HQM 
Chan 124

N46°56.82'-W124°08.96'

L-1, H-1

NEWBERG

117.4 UBG 
Chan 121

N45°21.19'-W122°58.69'

L-1, H-1

BATTLE GROUND

116.6 BTG 
Chan 113

N45°44.87'-W122°35.49'

L-1, H-1

NOTE: RADAR required.

NOTE: Chart not to scale.

TAKE-OFF OBSTACLE NOTES

RWY 17: Multiple trees beginning 1005' from DER, 24' left of centerline, up to 100' AGL/490' MSL.

Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL.

RWY 35: Multiple trees beginning 2176' from DER, 198 feet left of centerline up to 100' AGL/313' MSL.

Multiple trees and FLDLT on HGR beginning 657' from DER, 621' right of centerline, up to 100' AGL/ 315' MSL.



DEPARTURE ROUTE DESCRIPTION

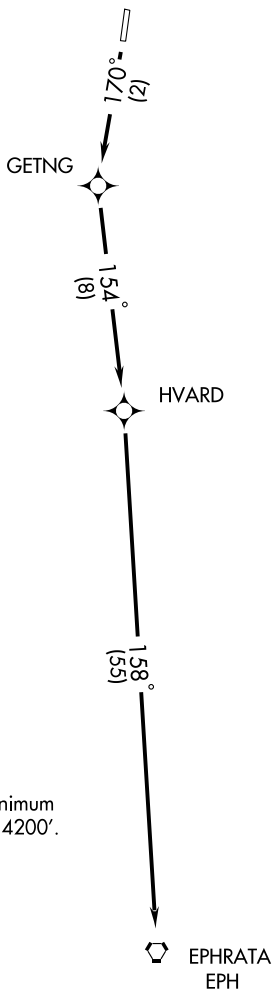
TAKE-OFF RUNWAY 17: Turn left. Thence....

TAKE-OFF RUNWAY 35: Turn right. Thence....

...Climb via heading 060°, maintain 2000. Expect radar vectors on course and filed altitude within five minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC within 6 NM of OLM VORTAC, or 2 minutes after departure for non-DME aircraft, turn left direct OLM VORTAC, continue climb in OLM VORTAC holding pattern to cross OLM VORTAC at or above R-086 CW R-064 4000 feet; R-065 CW R-085 7300 feet, continue climb via assigned route.

SEATTLE CENTER
126.1 291.6
SEATTLE RADIO
122.2



NOTE: 2200-2 or standard with a minimum climb of 300 Feet per Mile to 4200'.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Climb to 4200 via 170° course to GETNG WP, 154° course to HVARD WP, and 158° course to EPH VORTAC. Thence proceed on course.

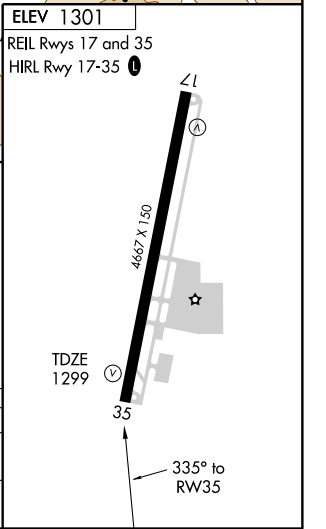
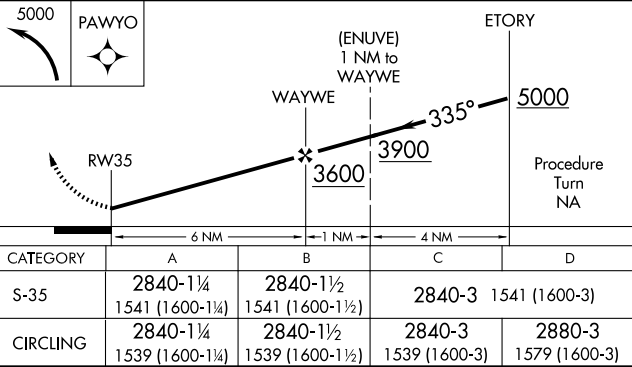
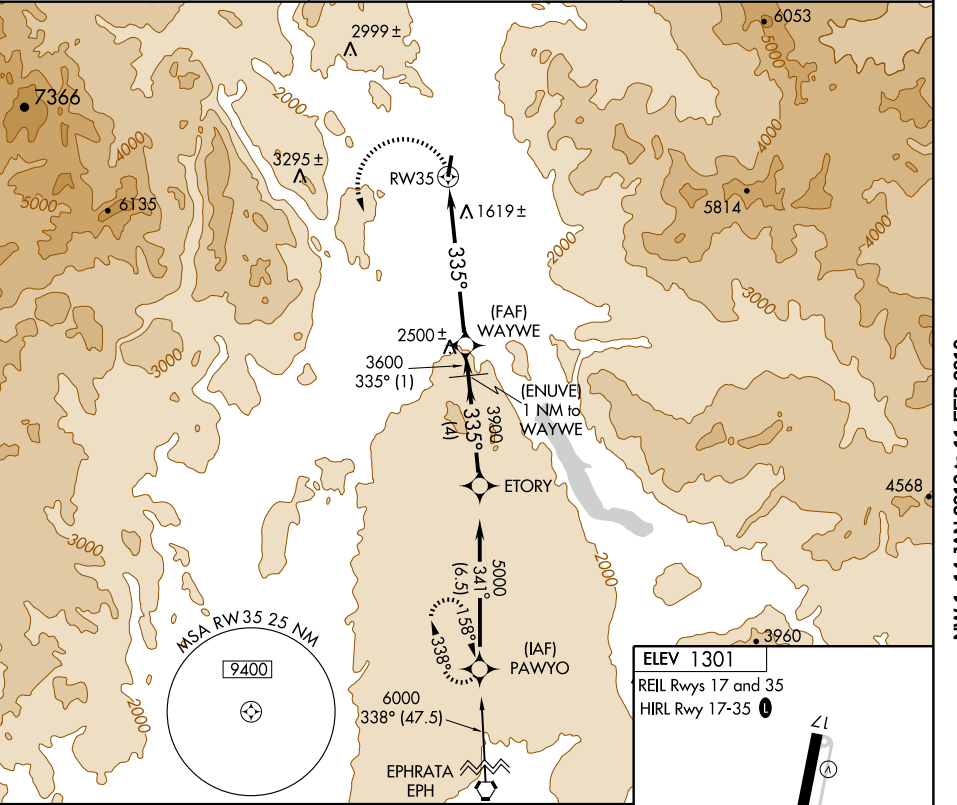
TAKE-OFF RUNWAY 35: NA

▼

▲ NA

MISSED APPROACH: Climbing left turn to 5000 direct PAWYO WP and hold.

ASOS 118.325	SEATTLE CENTER 126.1 291.6	UNICOM 122.8 (CTAF) 0
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AIRPORT DIAGRAM

AL-474 (FAA)

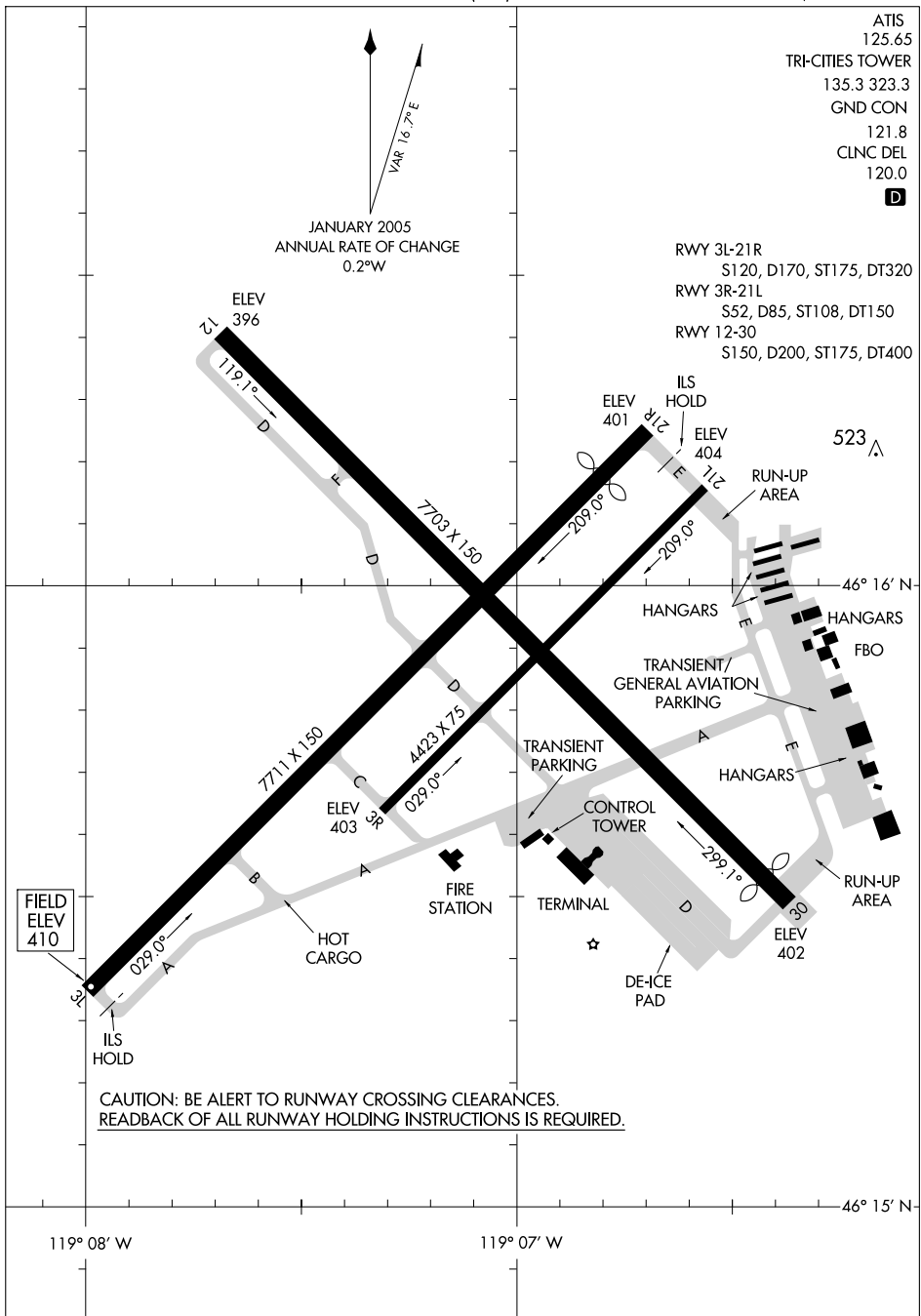
PASCO/TRI-CITIES (PSC)
PASCO, WASHINGTON

ATIS
125.65
TRI-CITIES TOWER
135.3 323.3
GND CON
121.8
CLNC DEL
120.0



JANUARY 2005
ANNUAL RATE OF CHANGE
0.2°W

RWY 3L-21R
S120, D170, ST175, DT320
RWY 3R-21L
S52, D85, ST108, DT150
RWY 12-30
S150, D200, ST175, DT400



NW-1. 14 JAN 2010 to 11 FEB 2010

LOC I-PSC <u>108.7</u>	APP CRS 206°	Rwy Idg 7111 TDZE 404 Apt Elev 410
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ILS or LOC RWY 21R

PASCO/ TRI-CITIES (PSC)

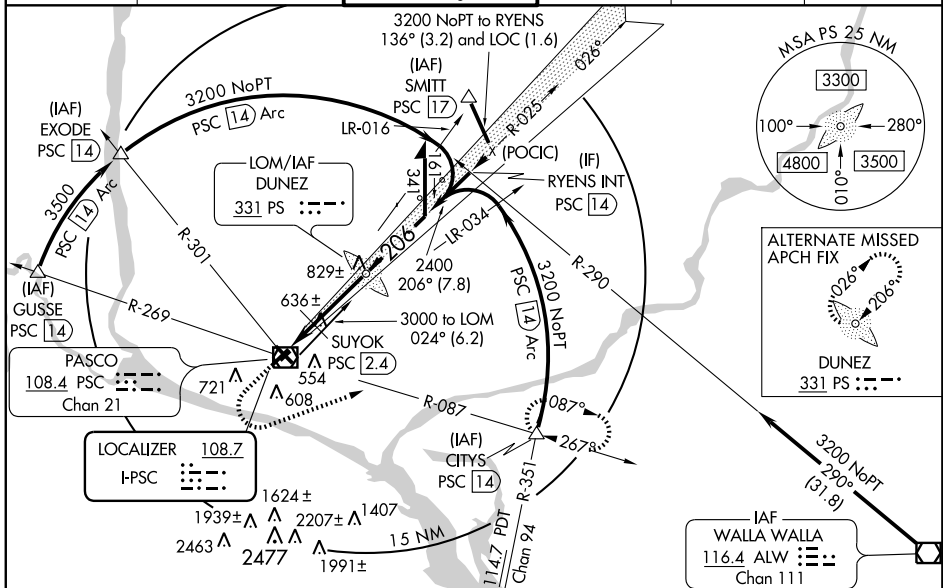
- V** If local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet.
- A** DME from PSC VOR/DME. Simultaneous reception of I-PSC and PSC VOR/DME when DME required.
- **RVR 1800 authorized with the use of FD or AP or HUD to DA.**
- Circling to Rwy 03R NA at night.**

MALSR

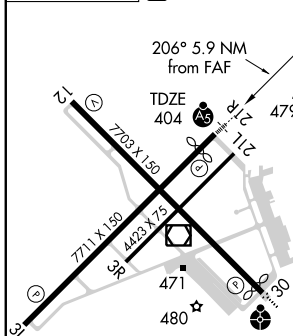


MISSED APPROACH: Climb to 1200 then climbing left turn to 3200 via heading 050° and PSC VOR/DME R-087 to CITYS INT/ PSC 14 DME and hold.

ATIS★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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ELEV 410	D
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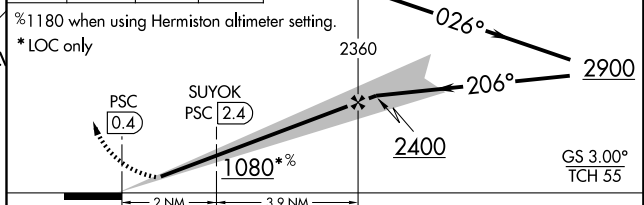
REIL Rwy 3L and 12
MIRL Rwy 12-30 **L**
HIRL Rwy 3L-21R **L**

FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

1200 ↑	3200 ↙ 050°	PSC R-087 <u>108.4</u>	CITYS △
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Remain
within 10 NM



CATEGORY	A	B	C	D
S-ILS 21R	**604/24 200 (200-½)			
S-LOC 21R	1080/24 676 (700-½)	1080-1½ 676 (700-1½)	1080-1¾ 676 (700-1¾)	
CIRCLING	1080-1 670 (700-1)	1080-2 670 (700-2)	1080-2¼ 670 (700-2¼)	
SUYOK FIX MINIMUMS				
S-LOC 21R	900/24 496 (500-½)	900/40 496 (500-¾)	900/50 496 (500-1)	
CIRCLING	920-1 510 (600-1)	920-1½ 510 (600-1½)	1040-2 630 (700-2)	

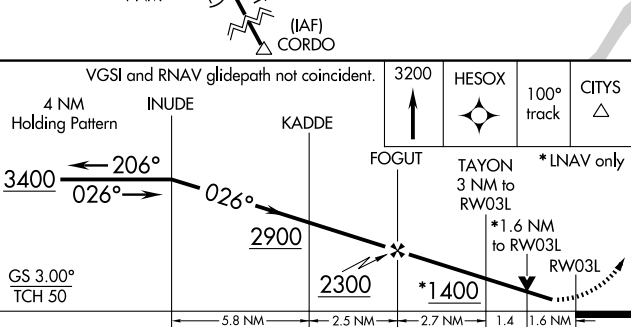
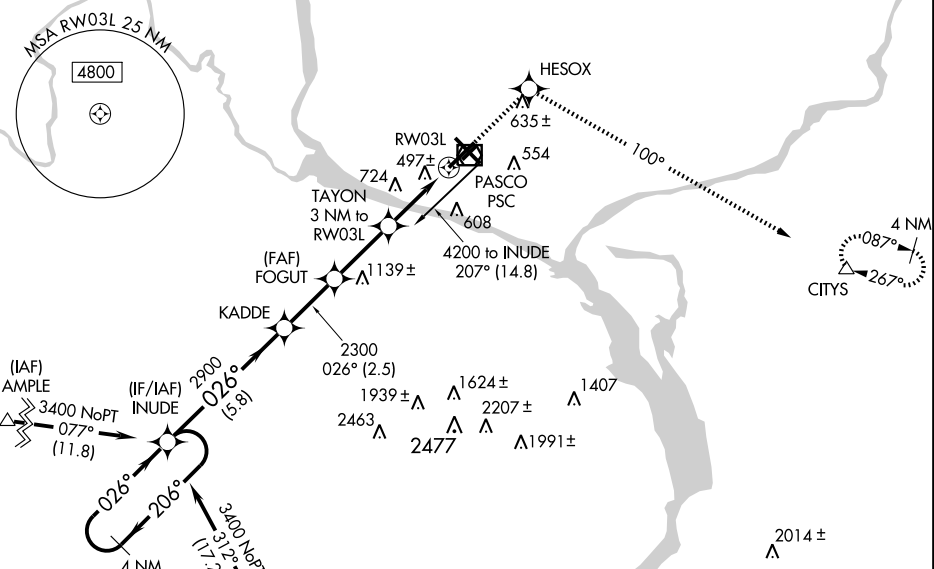
WAAS CH 40206 W03A	APP CRS 026°	Rwy Idg TDZE Apt Elev	7111 410 410
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RNAV (GPS) RWY 3L
PASCO/TRI-CITIES (PSC)

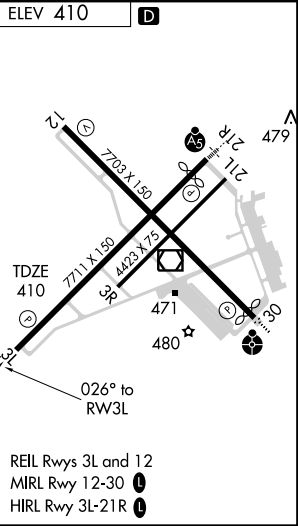
When local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet and all visibilities ¼ mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
VDP and Baro-VNAV NA when using Hermiston altimeter setting.
Circling to Rwy 3R NA at night. Visibility reduction by helicopters NA.
DME/DME RNP: 0.3 NA.

MISSED APPROACH: Climb to 3200
direct HESOX and via 100° track to
CITYS and hold.

ATIS ★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	660-1 250 (300-1)			
LNAV/VNAV DA	829-1½ 419 (500-1½)			
LNAV MDA	960-1 550 (600-1)	960-1½ 550 (600-1½)	960-1¾ 550 (600-1¾)	
CIRCLING	960-1 550 (600-1)	960-1½ 550 (600-1½)	1040-2 630 (700-2)	



⚠

When local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet and all visibilities ½ mile.

⚠

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).

⚠

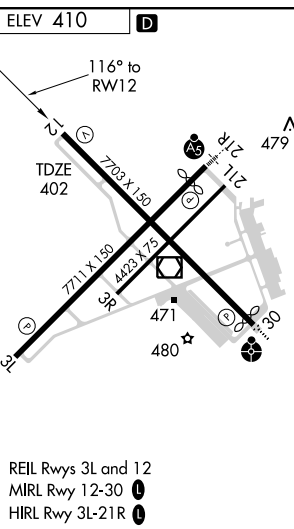
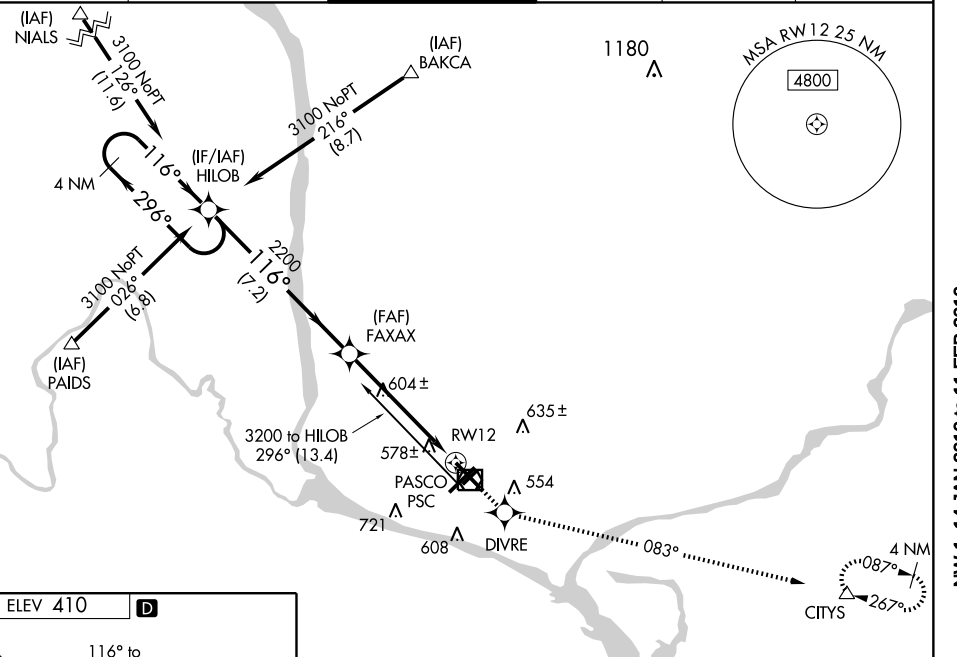
VDP and Baro-VNAV NA when using Hermiston altimeter setting.

⚠

Circling to Rwy 3R NA at night. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3200 direct DIVRE and via 083° track to CITYS and hold.

ATIS ★ 125.65	CHINOOK APP CON ★ 128.75 377.2	TRI-CITIES TOWER ★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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4 NM Holding Pattern		3200	DIVRE	083° track	CITYS
3100		296°	116°	116°	
GS 3.00° TCH 56		FAXAX	*1.3 NM to RWY 12		
		2200	RWY 12		
		7.2 NM	4.1 NM	1.3 NM	
CATEGORY	A	B	C	D	
LPV DA	748-1¼ 346 (400-1¼)				
LNAV/VNAV DA	894-1¾ 492 (500-1¾)				
LNAV MDA	860-1 458 (500-1)		860-1¼ 458 (500-1¼)	860-1½ 458 (500-1½)	
CIRCLING	920-1 510 (600-1)		920-1½ 510 (600-1½)	1040-2 630 (700-2)	

NW-1. 14 JAN 2010 to 11 FEB 2010

WAAS

CH 40303

W21A

APP CRS

206°

Rwy Idg

TDZE

Apt Elev

7111

404

410

For inoperative MALS, increase LPV all Cats visibility to RVR 5000 and LNAV Cat D visibility to RVR 6000.

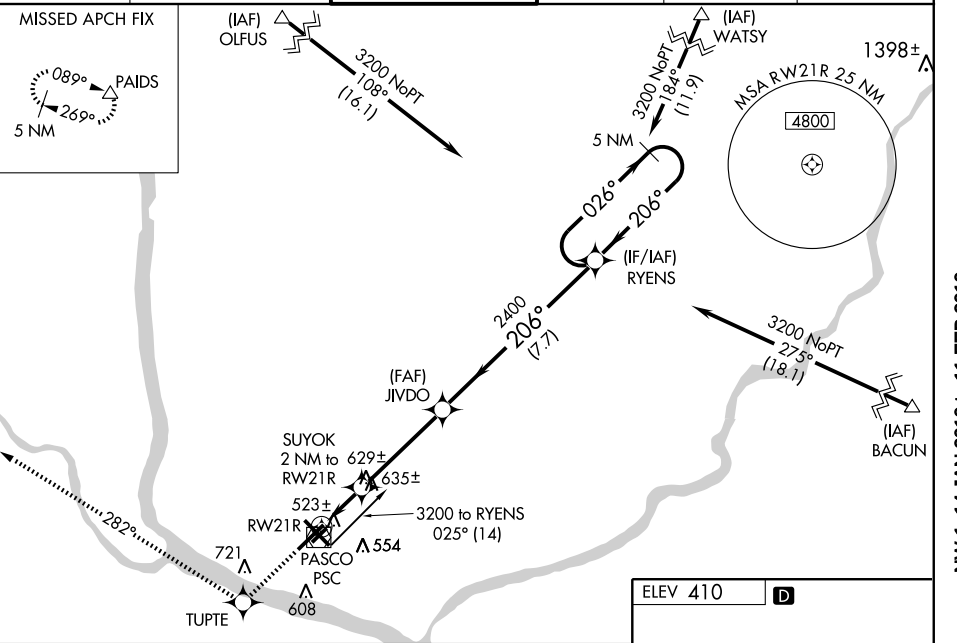
If local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. VDP and Baro-VNAV NA when using Hermiston altimeter setting.

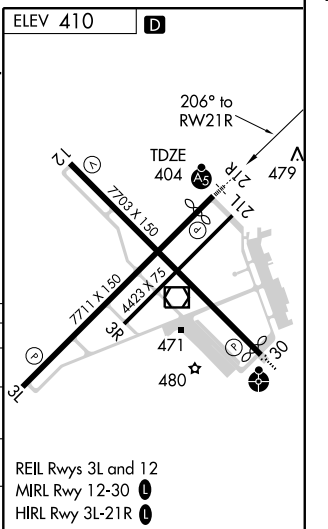
MALS

MISSED APPROACH: Climb to 5200 direct TUPTTE and via 282° track to PAIDS and hold, continue climb-in-hold to 5200.

ATIS ★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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5200	TUPTTE	282° track	PAIDS	%1180 when using Hermiston altimeter setting.	RYENS	5 NM Holding Pattern
				*LNAV only		
					JIVDO	
					SUYOK 2 NM to RW21R	
					RW21R	
					1080*%	
					1 NM	
					1 NM	
					4 NM	
					7.7 NM	
CATEGORY	A	B	C	D		
LPV DA	680/24	276 (300-½)				
LNAV/VNAV DA	797/40	393 (400-¾)				
LNAV MDA	780/24	376 (400-½)	780/50			
			376 (400-1)			
CIRCLING	880-1	470 (500-1)	900-1½	1040-2		
			490 (500-1½)	630 (700-2)		



NW-1, 14 JAN 2010 to 11 FEB 2010

AL-474 (FAA)

WAAS
CH 86605
W30A

APP CRS
296°

Rwy Idg	7503
TDZE	405
Apt Elev	410

RNAV (GPS) RWY 30
PASCO/TRI-CITIES (PSC)

▼ When local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet and all visibilities ½ mile.

▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).

VDP and Baro-VNAV NA when using Hermiston altimeter setting. Inoperative table does not apply. Circling to Rwy 3R NA at night. Visibility reduction by helicopters NA. DME/DME RNP 0.3 NA.

ODALS



MISSED APPROACH: Climb to 5200 direct DOPVE and via 265° track to PAIDS and hold, continue climb-in-hold to 5200.

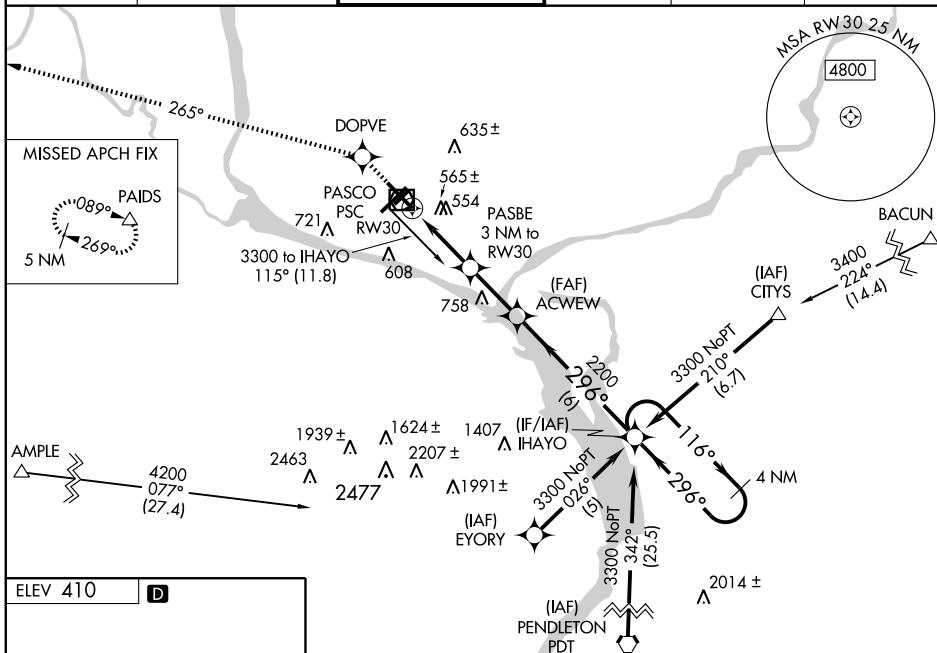
ATIS ★
125.65

CHINOOK APP CON★
128.75 377.2

TRI-CITIES TOWER★
135.3 (CTAF) **Q** 323.3

GND CON
121.8

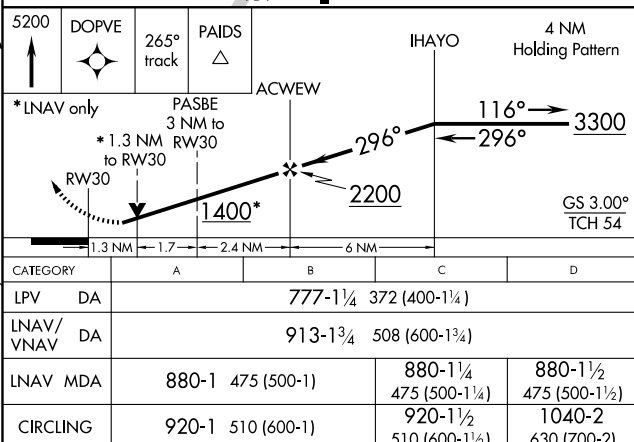
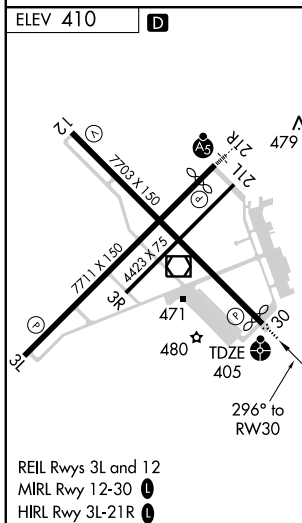
CLNC DEL
120.0

UNICOM
122.95

NW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 410

D

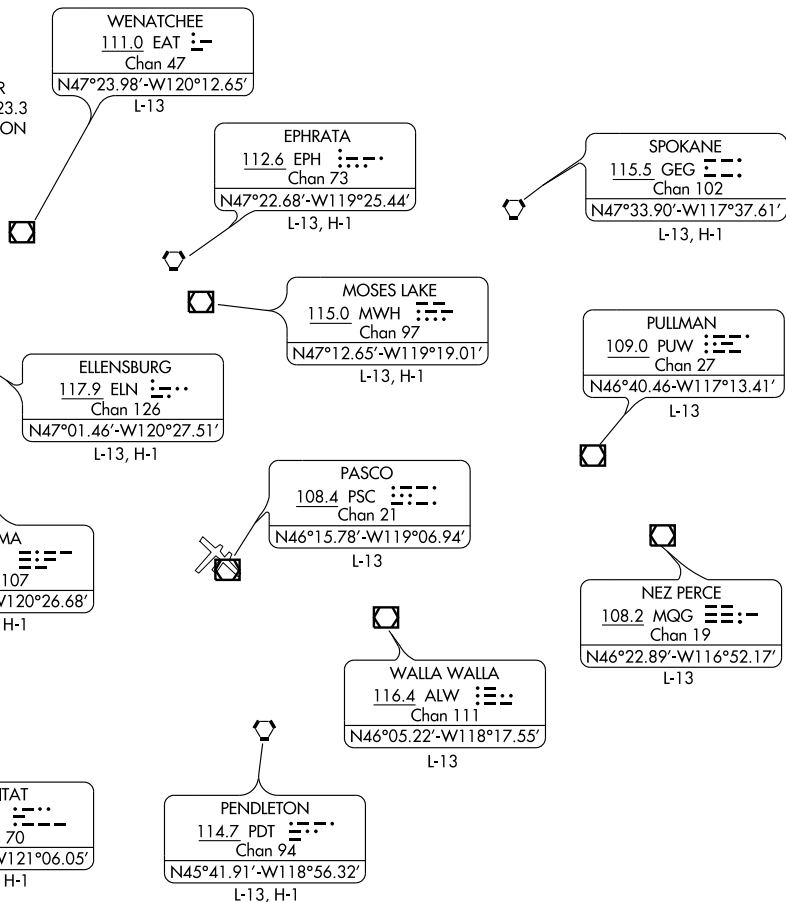


TRI-CITIES FOUR DEPARTURE

SL-474 (FAA)

PASCO/TRI-CITIES (PSC)
PASCO, WASHINGTON

ATIS 125.65
CLNC DEL
120.0
GND CON
121.8
TRI-CITIES TOWER
135.3 (CTAF) 323.3
CHINOOK DEP CON
128.75 377.2



NOTE: SID will not be assigned when Control Tower is closed.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

Fly runway heading, or ATC assigned heading, for vector to assigned route/fix. Maintain 10,000' or assigned lower altitude. Expect clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS: Climb runway heading to 3,000' then reverse course direct PSC VOR/DME to cross at or above MEA for route of flight.

VOR/DME PSC	APP CRS	Rwy Idg	7503
108.4	291°	TDZE	405
Chan 21		Apt Elev	410

VOR/DME RWY 30

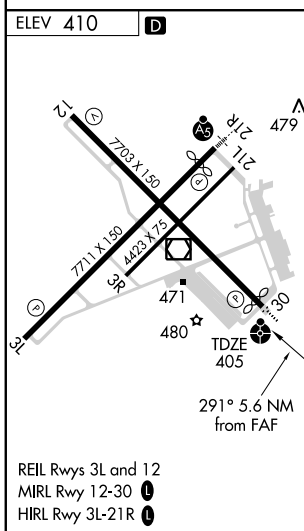
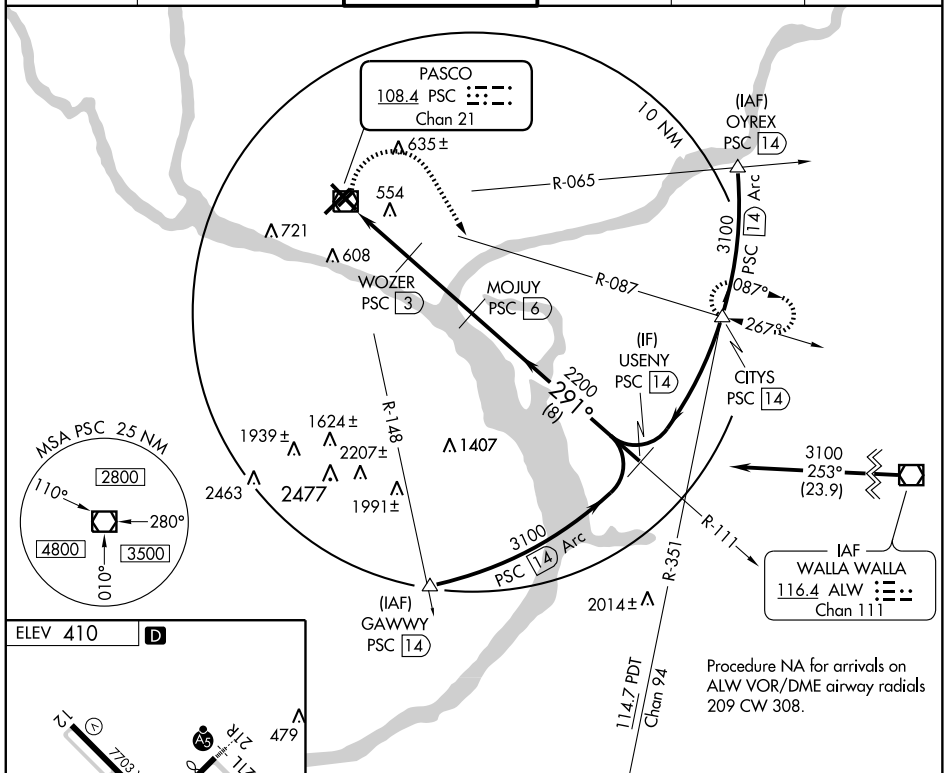
PASCO/TRI-CITIES (PSC)

- ▼** Inoperative table does not apply to Cat C.
▲ Visibility reduction by helicopters NA.
 When local altimeter setting not received, use Hermiston altimeter setting and increase all MDA 100 feet, increase S-30 visibility Cat C ¼ mile, Cat D ½ mile and circling Cat D ¼ mile.



MISSED APPROACH: Climbing right turn to 3200 via heading 130° and PSC R-087 to CITYS INT/PSC 14 DME and hold.

ATIS★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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3200  130°	PSC R-087 108.4	CITYS △	USENY PSC 14	
	PSC 0.4	PSC 1.6	WOZER PSC 3	
			MOJUJ PSC 6	
			3100	
			2200	
			291°	
			2.95°	
			TCH 54	
			1260	
			Procedure Turn NA	
			1.1 NM	
			1.5 NM	
			3 NM	
			8 NM	
CATEGORY	A	B	C	D
S-30	820-3/4	415 (500-3/4)	820-1 1/4	415 (500-1 1/4)
CIRCLING	860-1	450 (500-1)	900-1 1/2 490 (500-1 1/2)	1040-2 630 (700-2)

AL-474 (FAA)

VOR/DME PSC 108.4 Chan 21	APP CRS 195°	Rwy Idg 7111 TDZE 404 Apt Elev 410
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VOR RWY 21R
PASCO/ TRI-CITIES (PSC)

T If local altimeter setting not received, use Hermiston altimeter setting and increase all MDAs 100 feet.
A VDP NA when using Hermiston altimeter setting.
ADF or DME required. Circling to Rwy 03R NA at night.

MALSR



MISSED APPROACH: Climbing left turn to 3200 via heading 070° and PSC VOR/DME R-087 to CITYS INT/PSC 14 DME and hold.

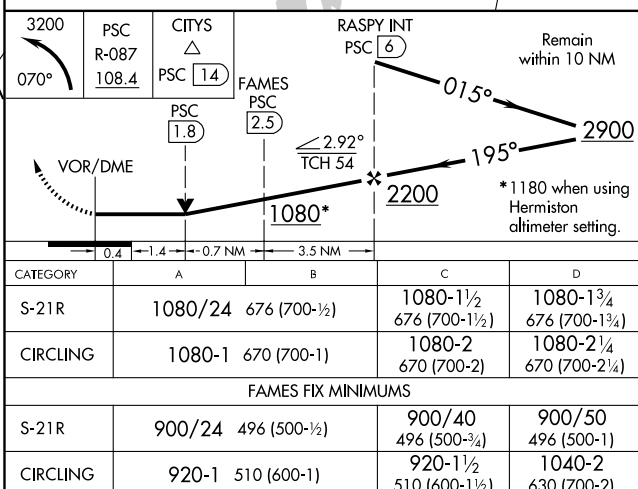
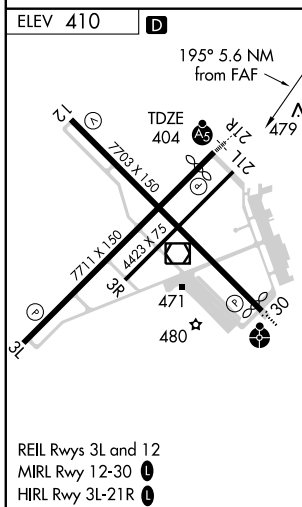
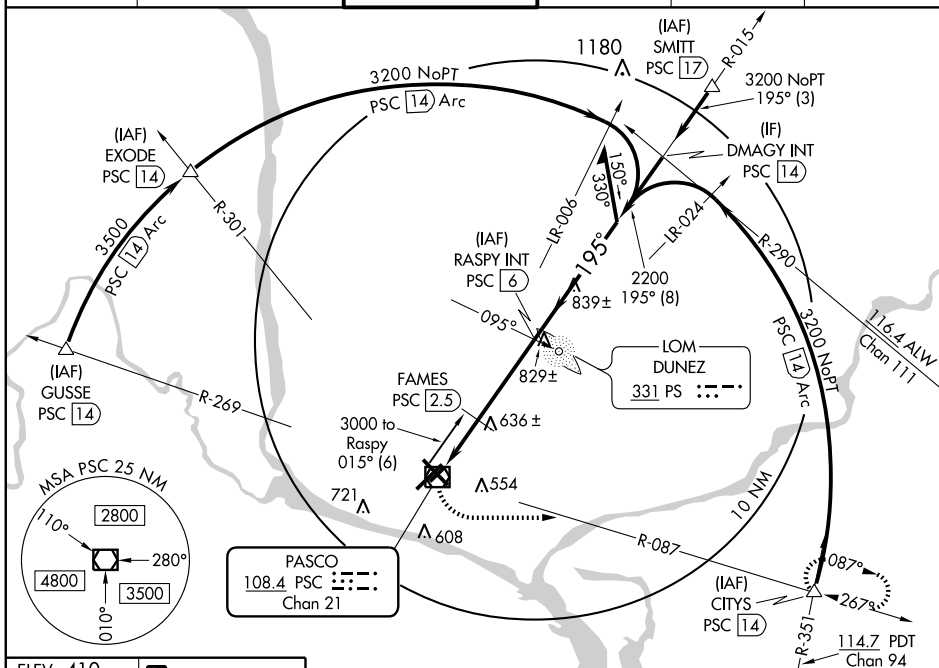
ATIS★
125.65

CHINOOK APP CON★
128.75 377.2

TRI-CITIES TOWER★
135.3 (CTAF) **L** 323.3

GND CON
121.8

CLNC DEL
120.0

UNICOM
122.95

JW-1 14 JAN 2010 to 11 FEB 2010

LOC I-CLM <u>108.9</u>	APP CRS 083°	Rwy Idg TDZE Apt Elev	6347 284 291
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ILS or LOC RWY 8

PORT ANGELES/ WILLIAM R. FAIRCHILD INTL (CLM)



Circling NA south of Rwy 8-26.



DME required.

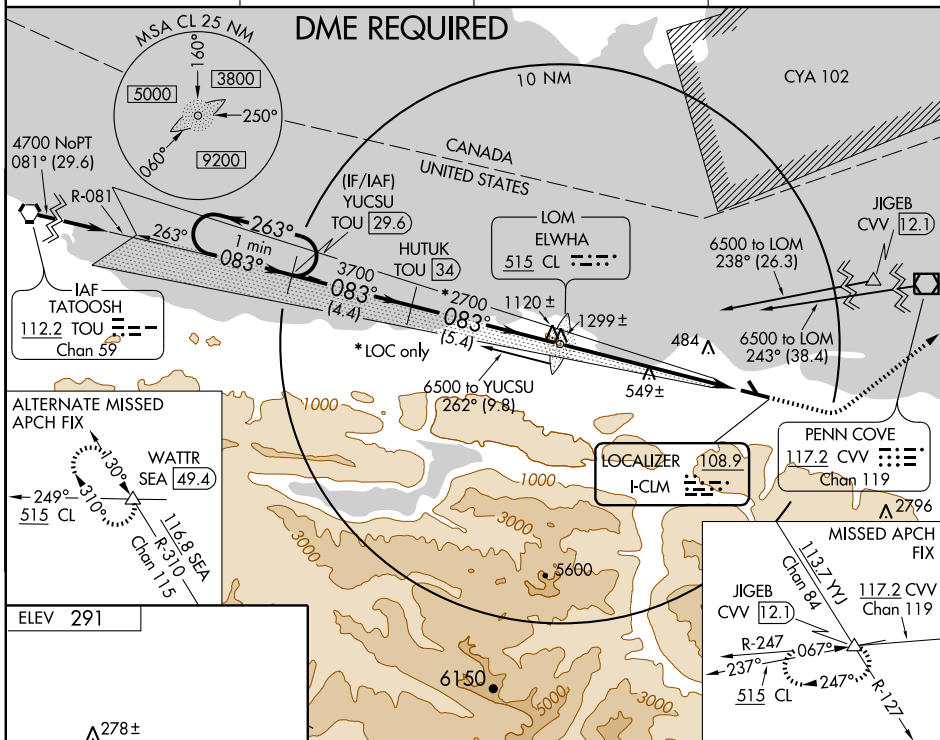
DME from TOU VORTAC. Simultaneous reception of I-CLM and TOU DME required. If local altimeter setting not received, use Friday Harbor altimeter setting and increase all MDAs 100 feet. ILS procedure NA.

MAISR



MISSED APPROACH: Climb to 1000 then climbing left turn to 5400 via heading 030° and CVV R-247 to JIGEB/CVV 12.1 DME and hold, continue climb-in-hold to 5400.

ASOS 135.175	WHIDBEY APP CON★ 118.2 285.65	CLNC DEL 124.15	UNICOM 122.975 (CTAF) 0
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083° 6.6 NM from FAF

3245 X 50

6347 X 150

TDZE 284

424 ±

355

LIRL Rwy 13-31
MIRL Rwy 8-26
REIL Rwy 26

	FAF to MAP 6.6 NM				
Knots	60	90	120	150	180
Min:Sec	6:36	4:24	3:18	2:38	2:12

One Minute Holding Pattern		YUCSU TOU <u>29.6</u>		HUTUK TOU <u>34</u>		1000 ↑	5400 ↖ 030°	CVV R-247 <u>117.2</u>	JIGEB △
4700 ← 263° 083° →		083°		3700		LOM 2486	* LOC only		
GS 3.00° TCH 54 VGSI and ILS glidepath not coincident.		4.4 NM		5.4 NM		6.6 NM			
CATEGORY	A		B		C		D		
S-ILS 8			486-½		202 (200-½)				
S-LOC 8	840-½		556 (600-½)		840-1 556 (600-1)		840-1¼ 556 (600-1¼)		
CIRCLING	840-1		549 (600-1)		840-1½ 549 (600-1½)		860-2 569 (600-2)		

RNAV (GPS) RWY 8

PORT ANGELES/ WILLIAM R. FAIRCHILD INTL (CLM)

WAAS CH 77703 W08A	APP CRS 082°	Rwy Idg TDZE Apt Elev	6347 284 291
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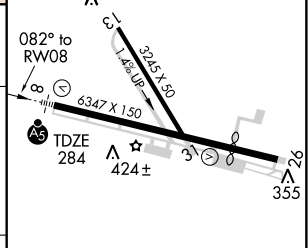
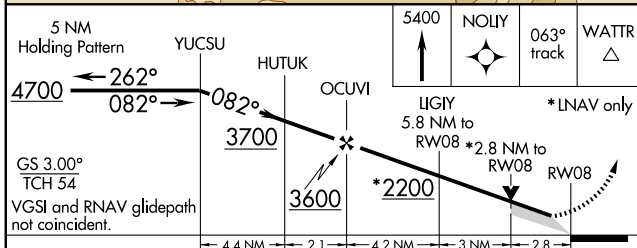
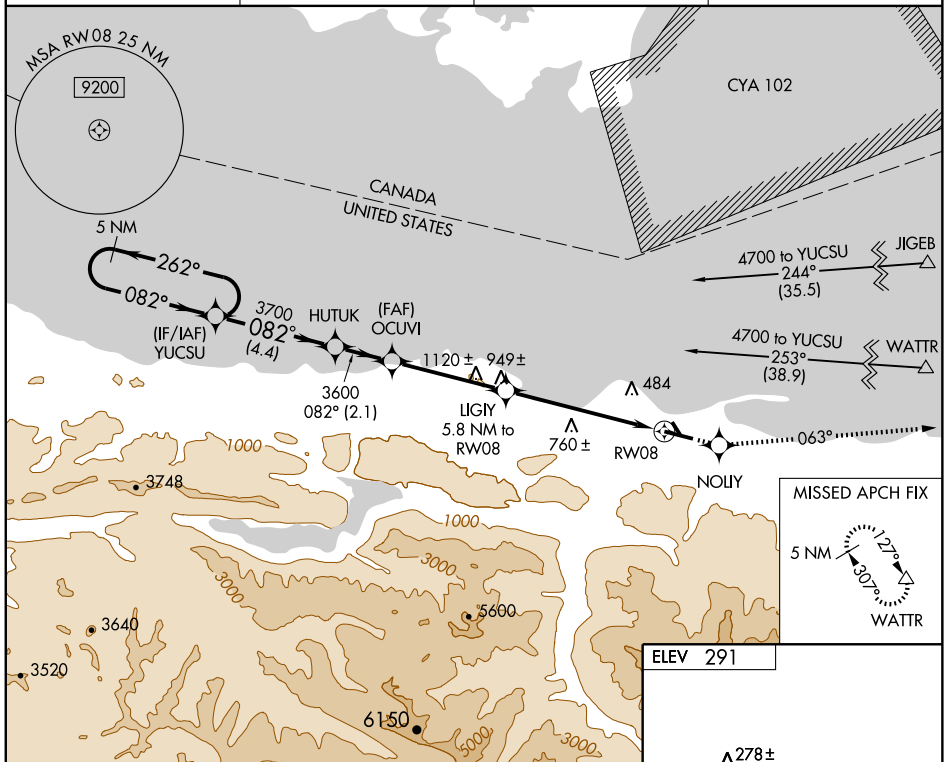
⚠ Circling NA south of Rwy 8-26. DME/DME RNP-0.3 NA.
⚠ If local altimeter setting not received, use Friday Harbor altimeter setting and increase all DAs/MDAs 100 feet. VDP NA when using Friday Harbor altimeter setting.

MALSR



MISSED APPROACH: Climb to 5400 direct NOLLY and via 063° track to WATTR and hold, continue climb-in-hold to 5400.

ASOS 135.175	WHIDBEY APP CON* 118.2 285.65	CLNC DEL 124.15	UNICOM 122.975 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	596-1/2 312 (400-1/2)			
LNNAV MDA	1240-3/4 956 (1000-3/4)	1240-1 956 (1000-1)	1240-2 1/2 956 (1000-2 1/2)	
CIRCLING	1240-1 1/4 949 (1000-1 1/4)	1240-1 1/2 949 (1000-1 1/2)	1240-3 949 (1000-3)	

LIRL Rwy 13-31
 MIRL Rwy 8-26 **0**
 REIL Rwy 26

WATTR FIVE DEPARTURE (OBSTACLE)

PORT ANGELES/ WILLIAM R. FAIRCHILD INTL (CLM)
SL-886 (FAA) PORT ANGELES, WASHINGTON

NAS WHIDBEY DEP CON
118.2 285.65
SEATTLE RADIO
122.6
CTAF 123.0



VICTORIA
113.7 YYJ
Chan 84
N48°43.62' - W123°29.06'
L-1, H-1

TAKE-OFF OBSTACLE NOTES

Rwy 13: Multiple trees and pole beginning 1299' from DER, 32' left of centerline, up to 100' AGL/520' MSL.
Sign 76' from DER, 230' left of centerline, 5' AGL/276' MSL.

Hangar 1550' from DER, 457' left of centerline, 49' AGL/320' MSL.

OL on airport beacon 2023' from DER, 829' left of centerline, 74' AGL/345' MSL.

Multiple trees and pole beginning 614' from DER, 11' right of centerline, up to 100' AGL/599' MSL.

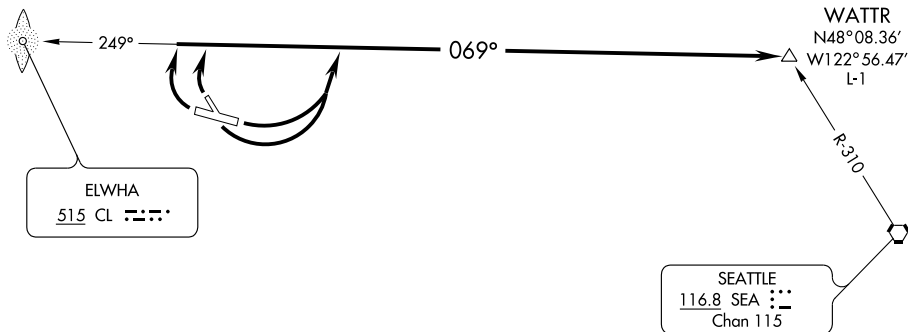
Rwy 26: Multiple trees beginning 2940' from DER, 747' left of centerline, up to 95' AGL/378' MSL.

Rwy 31: Multiple trees beginning 470' from DER, 39' left of centerline, up to 71' AGL/298' MSL.

Multiple trees beginning 640' from DER, 112' right of centerline, up to 63' AGL/290' MSL.

Rwy 8: Multiple trees and poles beginning 130' from DER, 261' left of centerline, up to 124' AGL/415' MSL.
Multiple trees and poles beginning 923' from DER, 111' right of centerline, up to 232' AGL/479' MSL.

Hangar 212' from DER, 523' right of centerline, 19' AGL/310' MSL.



TAKE-OFF MINIMUMS

Rwys 26, 31: Standard.

Rwy 13: Standard with minimum climb of 454' per NM to 1100.

Rwy 8: 300-1.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8 and 13: Climbing left turn, thence....

TAKE-OFF RUNWAYS 26 and 31: Climbing right turn, thence....

....on 069° bearing from CL LOM to WATTR INT, maintain 5400.

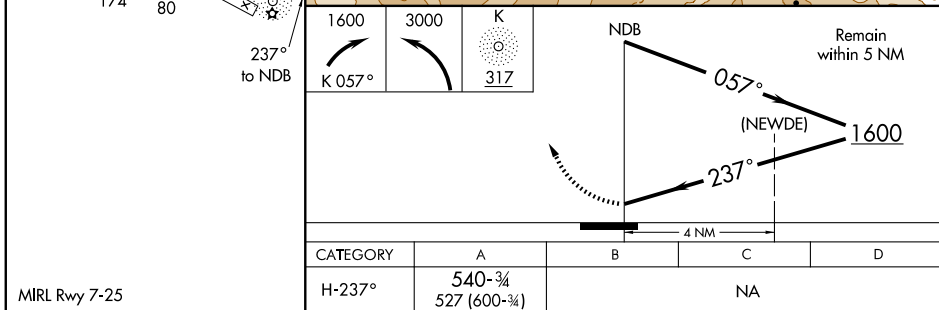
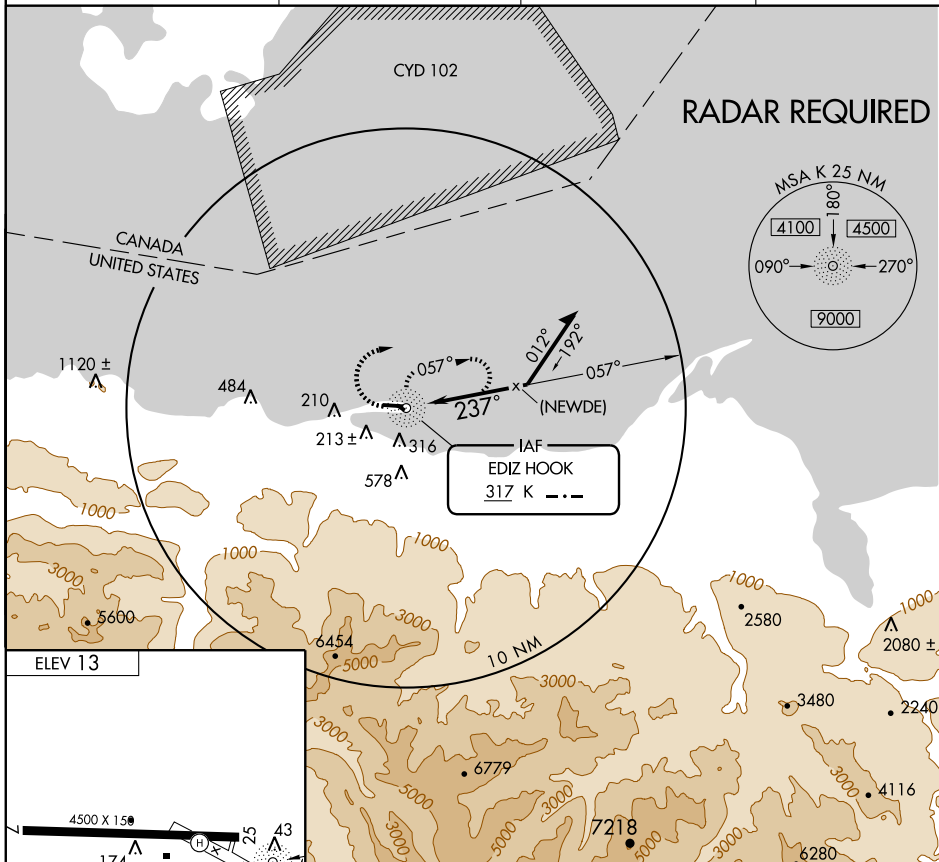
NDB K <u>317</u>	APP CRS 237°	Rwy Idg N/A TDZE N/A Apt Elev 13
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COPTER NDB or GPS 237°
PORT ANGELES CGAS (NOW)

T
A NA Prior permission required.

MISSED APPROACH: Climbing right turn to 1600 via bearing 057° from Ediz Hook NDB, then climbing left turn to 3000 direct Ediz Hook NDB and hold.

WHIDBEY APP CON 118.2 285.65	PORT ANGELES AIR 127.7 345.0	CLNC DEL 124.15	UNICOM 122.975 (CTAF)
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RNAV (GPS) RWY 5

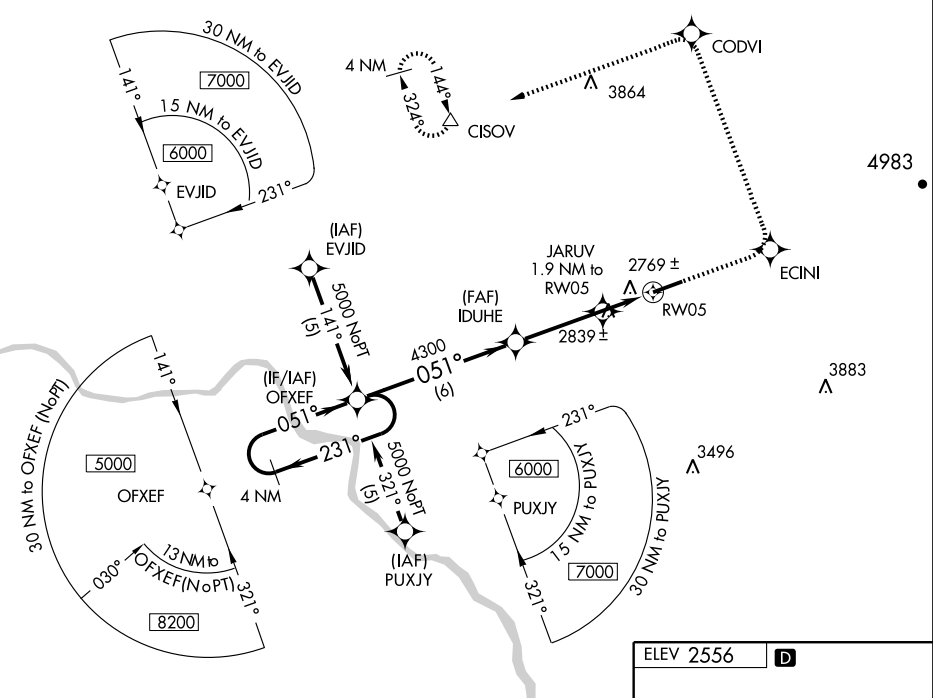
PULLMAN/MOSCOW RGNL (PUW)

WAAS Chan 50129 W05A	APP CRS 051°	Rwy Idg TDZE 2540 Apt Elev 2556
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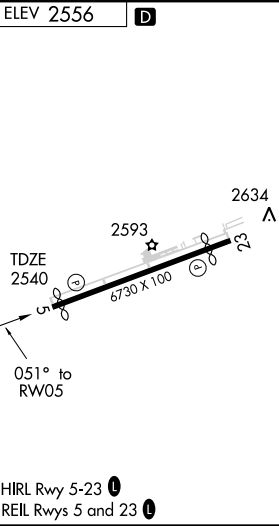
▼ DME/DME RNP-0.3 NA.
▲ Baro VNAV NA below -20°C (-4°F).

MISSED APPROACH: Climb to 6000 direct ECINI, and via 321° track to CODVI and via 231° track to CISOV and hold.

ASOS 135.675	SEATTLE CENTER 123.95 282.3	UNICOM 122.8 (CTAF) 0
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	4 NM Holding Pattern	OFXEF	6000	ECINI	TRK 321°	CODVI	TRK 231°	CISOV
	5000	231°	051°	4300	3180	6 NM	3.4 NM	1.9 NM
	GS 3.00°	TCH 55						
CATEGORY	A	B	C	D				
LPV DA		2981-1½	441 (500-1½)					
LNAV/VNAV DA		3177-2¼	637 (700-2¼)					
LNAV MDA	3100-1	560 (600-1)	3100-1½	560 (600-1½)	3100-1¾	560 (600-1¾)		
CIRCLING		3220-2¼	664 (700-2¼)					



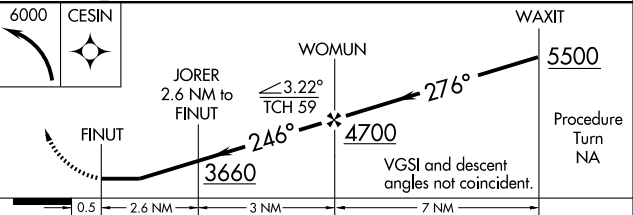
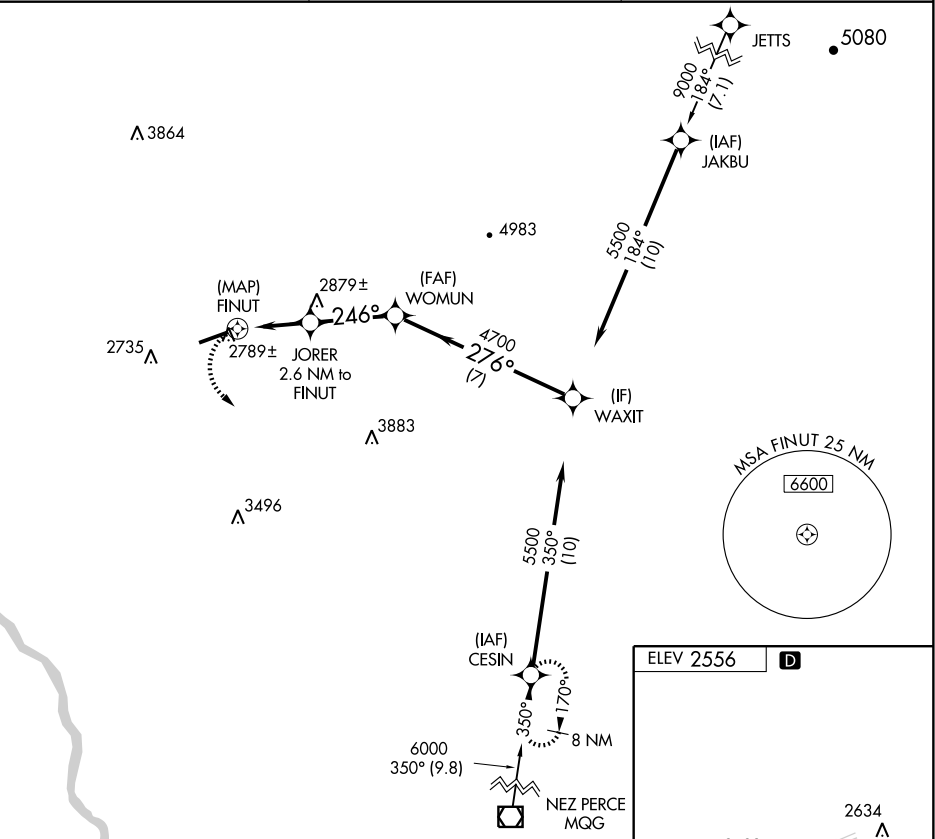
APP CRS	Rwy Idg	5240
246°	TDZE	2549
	Apt Elev	2556

RNAV (GPS) RWY 23

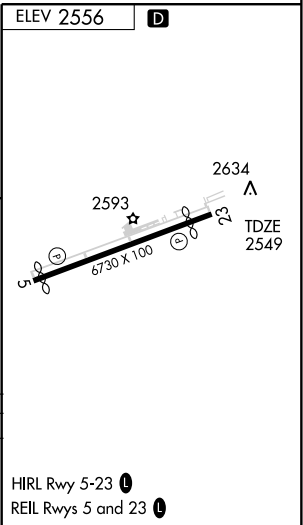
PULLMAN/MOSCOW RGNL (PUW)

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.	MISSED APPROACH: Climbing left turn to 6000 direct CESIN and hold.
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ASOS 135.675	SEATTLE CENTER 123.95 282.3	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
LNAV MDA	3180-1	631 (700-1)	3180-1 $\frac{3}{4}$ 631 (700-1 $\frac{3}{4}$)	3180-2 631 (700-2)
CIRCLING	3220-1	664 (700-1)	3220-1 $\frac{3}{4}$ 664 (700-1 $\frac{3}{4}$)	3220-2 664 (700-2)



VOR RWY 5

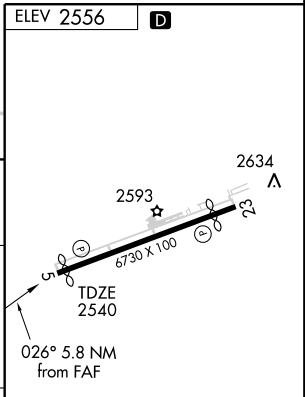
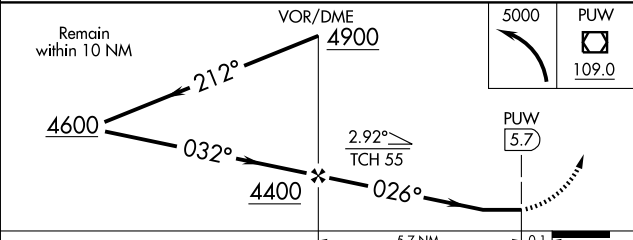
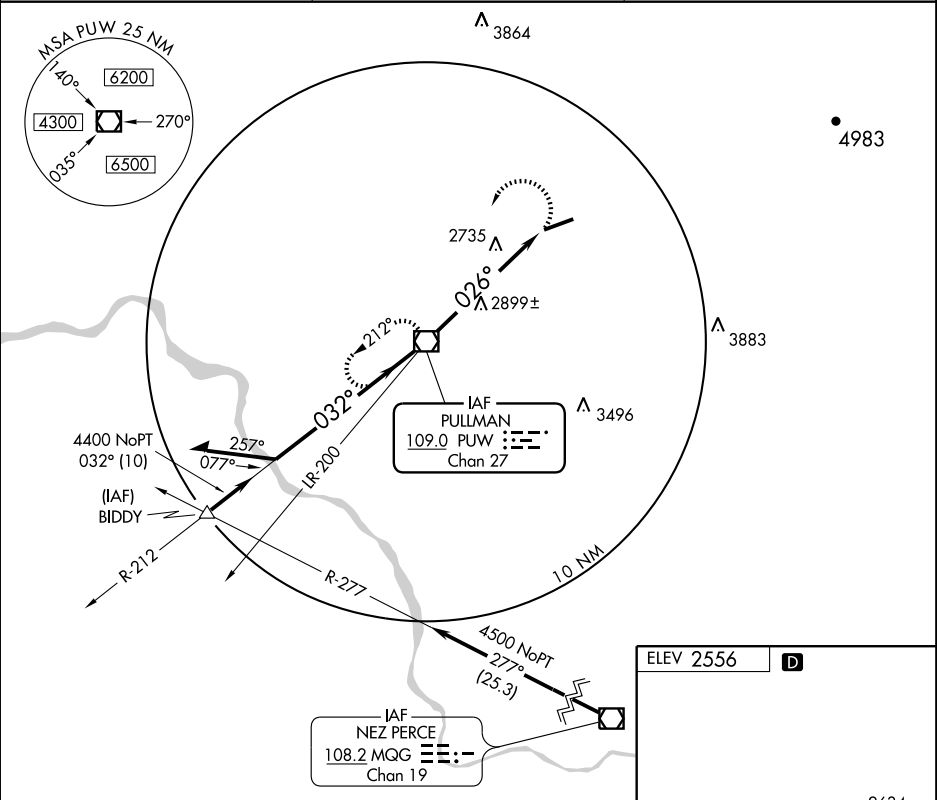
PULLMAN/MOSCOW RGNL (PUW)

VOR/DME PUW	APP CRS	Rwy Idg	6200
109.0	026°	TDZE	2540
Chan 27		Apt Elev	2556

When VGSI inoperative, circling Rwy 5 NA at night.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 5000 direct PUW
VOR/DME and hold.

ASOS 135.675	SEATTLE CENTER 123.95 282.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D	HIRL Rwy 5-23 0	REIL Rws 5 and 23 0
S-5	3120-1	580 (600-1)	3120-1½ 580 (600-1½)	3120-1¾ 580 (600-1¾)	FAF to MAP 5.7 NM	
CIRCLING	3220-1	664 (700-1)	3220-1¾ 664 (700-1¾)	3220-2 664 (700-2)		
					Knots	60 90 120 150 180
					Min:Sec	5:42 3:48 2:51 2:17 1:54

APP CRS	Rwy Idg	3650
342°	TDZE	538
	Apt Elev	538

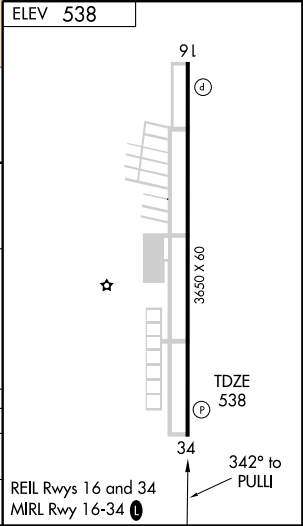
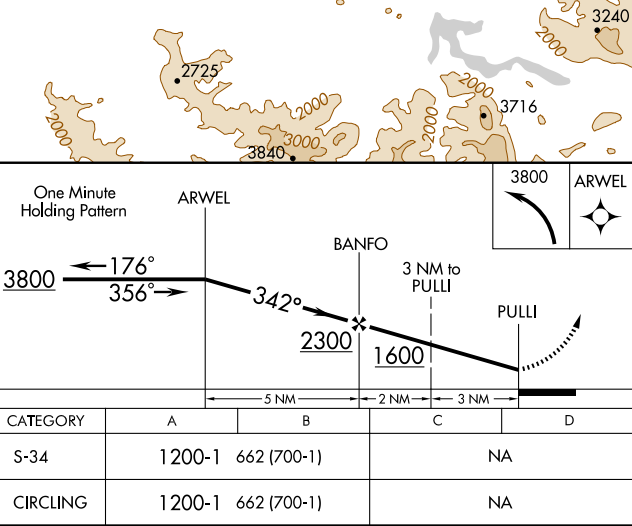
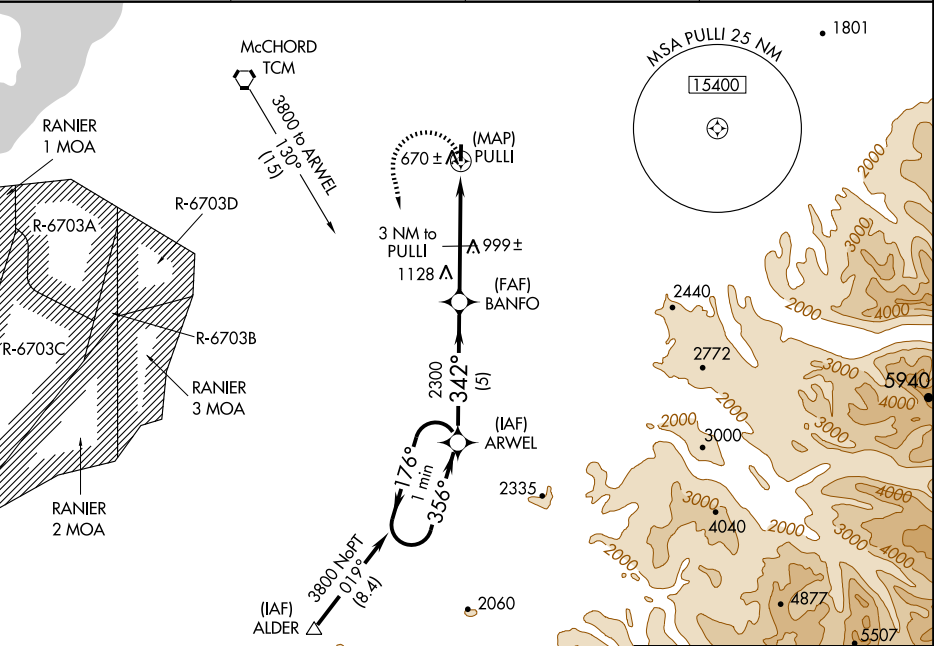
GPS RWY 34

PUYALLUP/PIERCE COUNTY-THUN FIELD (PLU)

▼ ▲ NA

MISSED APPROACH: Climbing left turn to 3800 direct ARWEL WP and hold.

AWOS-3 128.575	SEATTLE APP CON 126.5 391.9	CLNC DEL 121.85	UNICOM 122.7 (CTAF) ①
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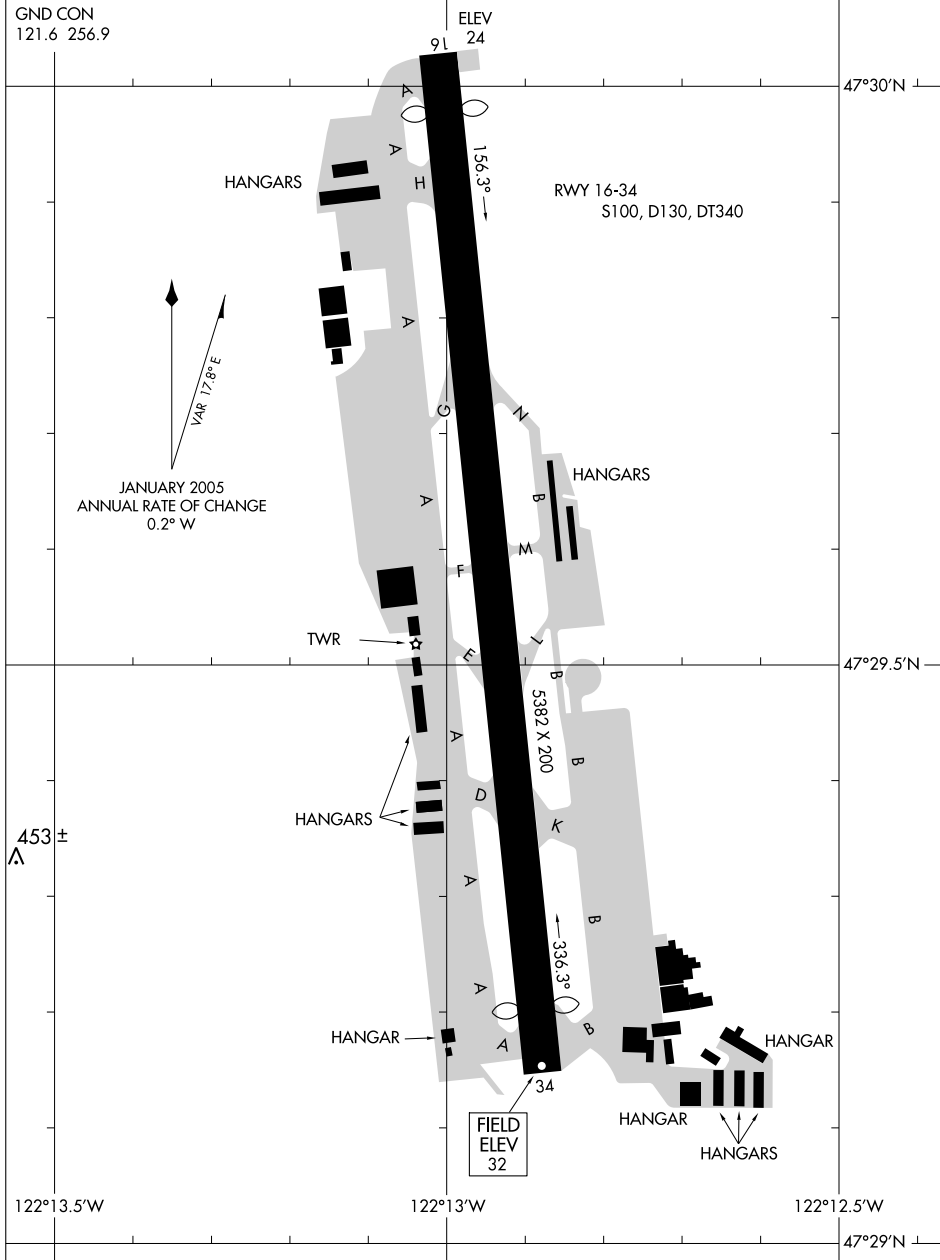
AIRPORT DIAGRAM

AL-5396 (FAA)

RENTON MUNI (RNT)
RENTON, WASHINGTON

ATIS
126.95
RENTON TOWER ★
124.7 256.9
GND CON
121.6 256.9

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

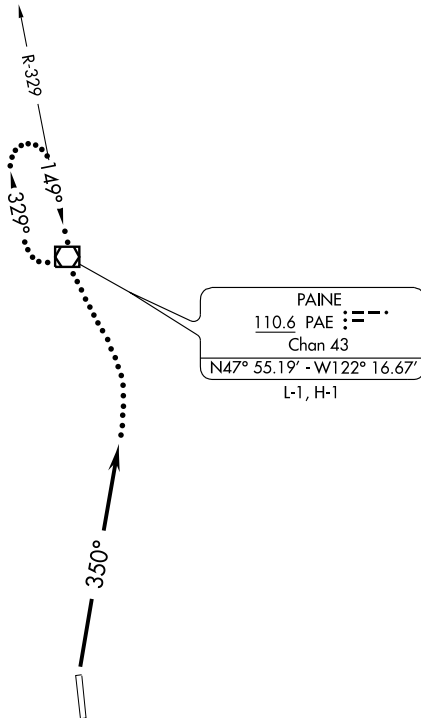


BELLEVUE TWO DEPARTURE

SL-5396 (FAA)

RENTON MUNI (RNT)
RENTON, WASHINGTON

ATIS 126.95
GND CON
121.6 256.9
RENTON TOWER ★
124.7 (CTAF) 256.9
SEATTLE DEP CON
119.2 284.7



NOTE: RADAR required.

TAKE-OFF MINIMUMS

Rwy 16: NA- ATC.

Rwy 34: Standard with minimum climb of 315' per NM to 800.

TAKE-OFF OBSTACLE NOTES

Rwy 34: Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL, wood piling, trees and terrain beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb heading 350°, maintain 3000, expect radar vectors, expect filed altitude within 5 minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Departure Control within 3 minutes after departure, climbing left turn direct PAE VOR/DME, continue climb-in PAE VOR/DME holding pattern to cross PAE VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

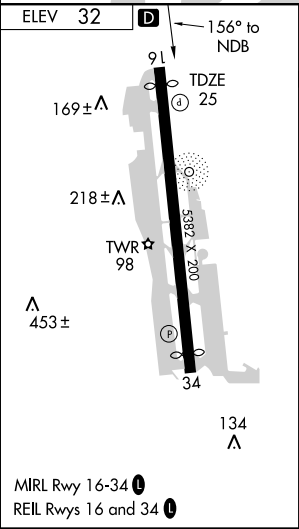
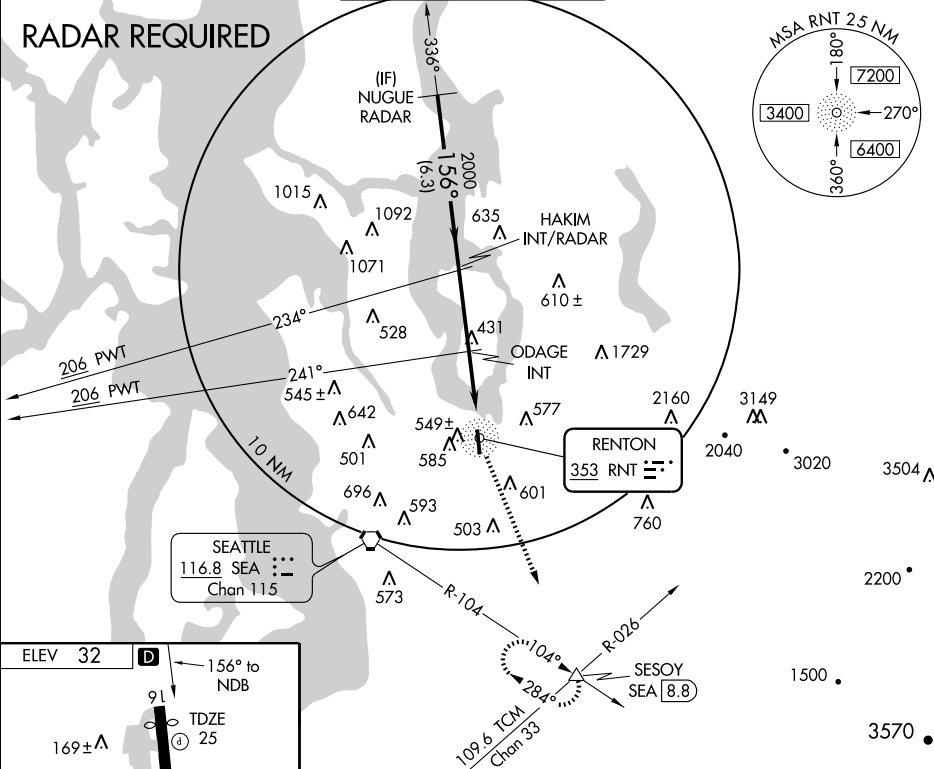
▼

▲

Circling NA W of Rwy 16-34. Visibility reduction by helicopters NA. When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting.

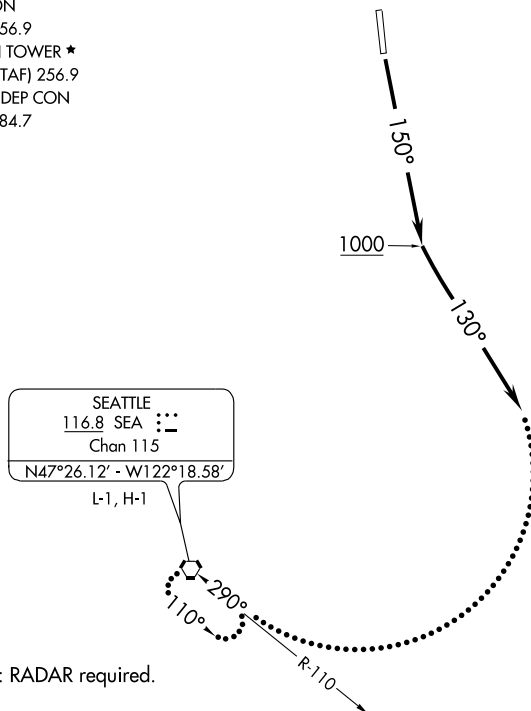
MISSED APPROACH: Climb to 5000 via 141° bearing from RNT NDB and SEA VORTAC R-104 to SESOY INT and hold, continue climb-in-hold to 5000.

ATIS 126.95	SEATTLE APP CON 119.2 284.7	RENTON TOWER ★ 124.7 (CTAF) 256.9	GND CON 121.6 256.9	UNICOM 122.95
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NUGUE RADAR		HAKIM INT/RADAR	ODAGE INT	5000	SEA R-104 116.8	SESOY
2000		2000	1000	RNT 141°	NDB	
6.3 NM		2.9 NM	2.8 NM	0.3		
CATEGORY	A	B	C	D		
S-16	1000-1¼ 975 (1000-1¼)	1000-1½ 975 (1000-1½)	1000-3	975 (1000-3)		
CIRCLING	1000-1¼ 968 (1000-1¼)	1000-1½ 968 (1000-1½)	1000-3	968 (1000-3)		
ODAGE FIX MINIMUMS (DUAL ADF RECEIVERS REQUIRED)						
S-16	900-1 875 (900-1)	900-1¼ 875 (900-1¼)	900-2½ 875 (900-2½)	900-2¾ 875 (900-2¾)		
CIRCLING	900-1 868 (900-1)	900-1¼ 868 (900-1¼)	920-2¾ 888 (900-2¾)	920-3 888 (900-3)		

ATIS 126.95
 GND CON
 121.6 256.9
 RENTON TOWER ★
 124.7 (CTAF) 256.9
 SEATTLE DEP CON
 119.2 284.7



NOTE: RADAR required.

TAKE-OFF MINIMUMS

Rwy 16: Standard with a minimum climb of 405' per NM to 800.
 Rwy 34: NA- ATC.

TAKE-OFF OBSTACLE NOTES

Rwy 16: Trees, towers, lights and blast shield beginning 186' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and signs beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb heading 150° to 1000, then climbing left turn heading 130°, expect radar vectors, maintain 3000, expect filed altitude within 5 minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Departure Control within 3 minutes after departure, climbing right turn direct SEA VORTAC, continue climb-in SEA VORTAC holding pattern to cross SEA VORTAC at or above MEA/MCA for direction of flight before proceeding on course.

APP CRS	Rwy Idg	5082
157°	TDZE	25
	Apt Elev	32

RNAV (GPS) Y RWY 16

RENTON MUNI (R.NT)

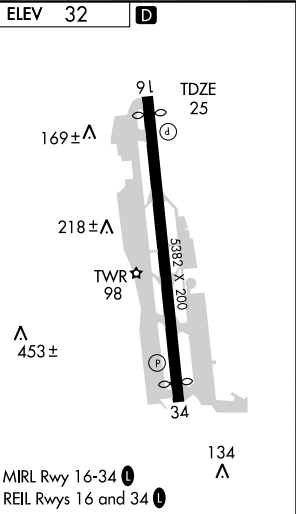
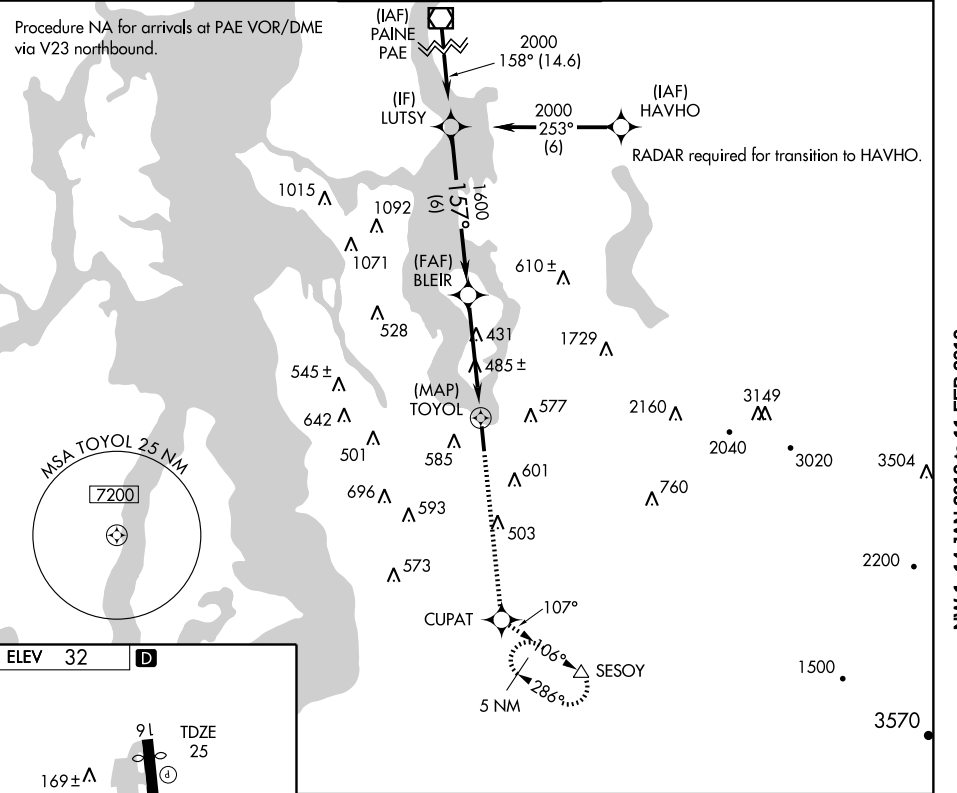
▼

▲

Circling NA W of Rwy 16-34. DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA. When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting.

MISSED APPROACH: Climb to 5000 direct CUPAT and via track 107° to SESOY and hold, continue climb-in-hold to 5000.

ATIS 126.95	SEATTLE APP CON 119.2 284.7	RENTON TOWER★ 124.7 (CTAF) 256.9	GND CON 121.6 256.9	UNICOM 122.95
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	LUTSY	2000	157°	BLEIR	1600	3.04°	TCH 50	1.8 NM to TOYOL	TOYOL	5000	CUPAT	trk 107°	SESOY
Procedure Turn NA													
	6 NM			2.6 NM		1.8		0.3					
CATEGORY	A	B	C	D									
LNAV MDA	760-1	735 (800-1)	760-2 735 (800-2)	760-2½ 735 (800-2½)									
CIRCLING	880-1 848 (900-1)	880-1½ 848 (900-1½)	920-2¾ 888 (900-2¾)	920-3 888 (900-3)									

NW-1. 14 JAN 2010 to 11 FEB 2010

▼

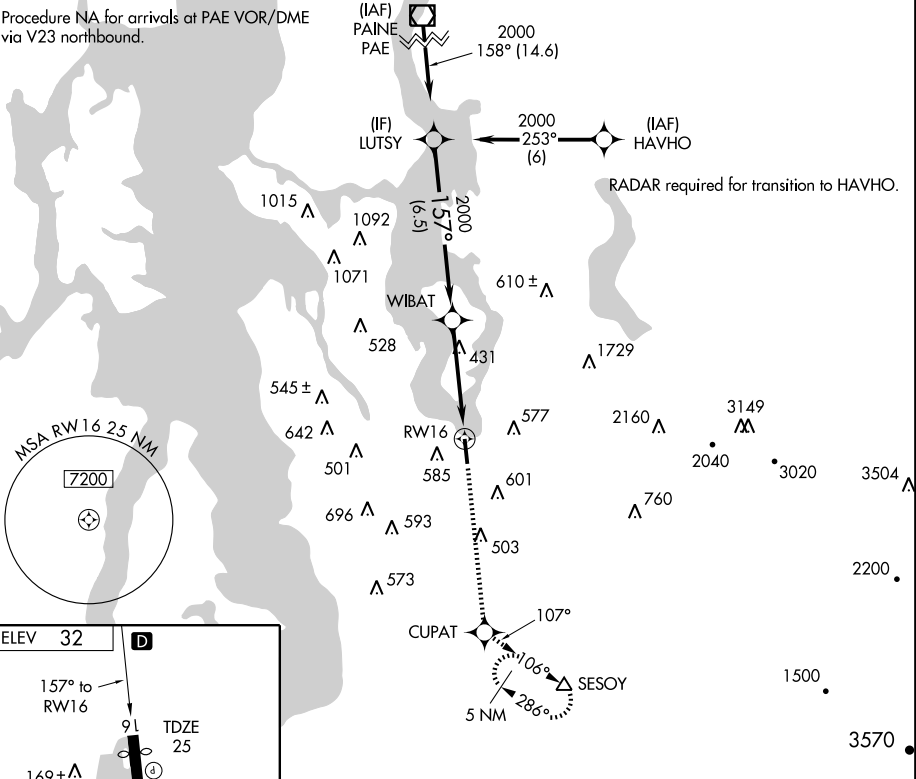
⚠

Circling NA W of Rwy 16-34. DME/DME RNP- 0.3 NA. When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting. Circling requires descent on GS to CMDA.

MISSED APPROACH: Climb to 5000 direct CUPAT and via track 107° to SESOY and hold, continue climb-in-hold to 5000.

ATIS 126.95	SEATTLE APP CON 119.2 284.7	RENTON TOWER★ 124.7 (CTAF) 256.9	GND CON 121.6 256.9	UNICOM 122.95
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Procedure NA for arrivals at PAE VOR/DME via V23 northbound.



VGSI and RNAV glidepath not coincident.			
5000 CUPAT trk 107° SESOY			
Procedure Turn NA LUTSY WIBAT 2000 157° 2000 6.5 NM 4.3 NM RW16			
GS 4.20° TCH 50			
CATEGORY	A	B	D
LPV DA	542-1¼	517 (600-1¼)	NA
CIRCLING	880-1¼	848 (900-1¼)	NA

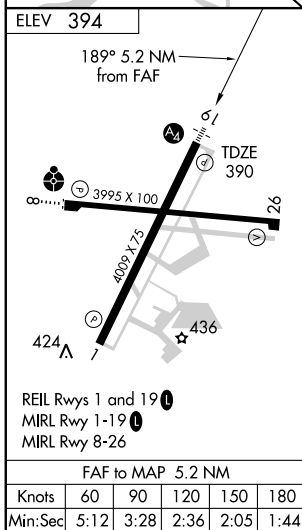
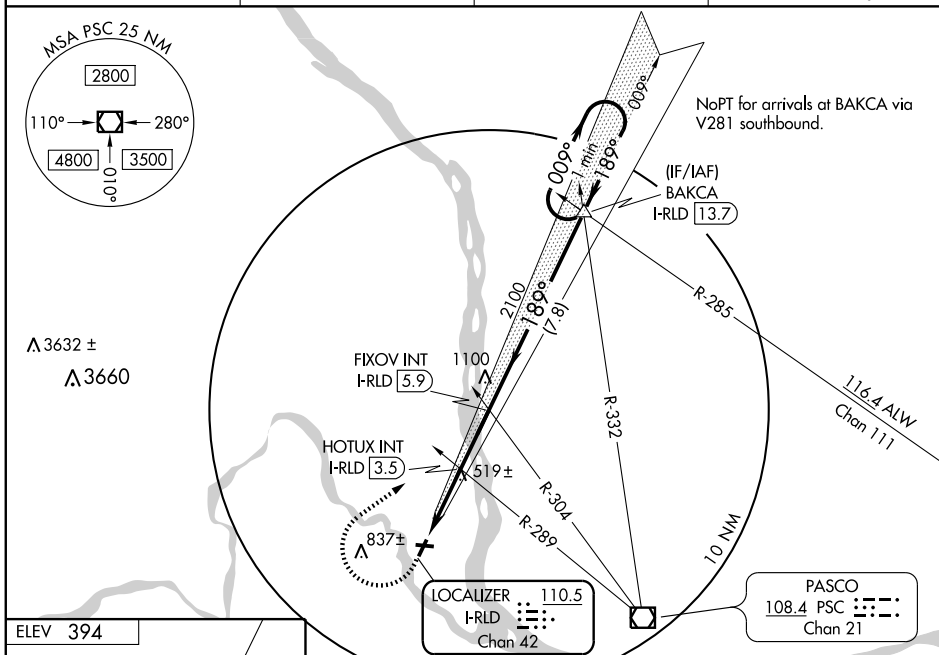
LOC/DME I-RLD 110.5 Chan 42	APP CRS 189°	Rwy Idg TDZE Apt Elev	4009 390 394
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LOC RWY 19

RICHLAND (RLD)

NA Visibility reduction by helicopters NA. VDP NA when using Pasco altimeter setting. When local altimeter setting not received, use Pasco altimeter setting and increase all MDA 40 feet. Inoperative table does not apply to S-19 all Cats, and HOTUX fix minimums S-19 Cat C.	MALS	MISSED APPROACH: Climbing right turn to 4000 via heading 038° and I-RLD NE course to BAKCA INT/I-RLD 13.7 DME and hold.
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AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF)
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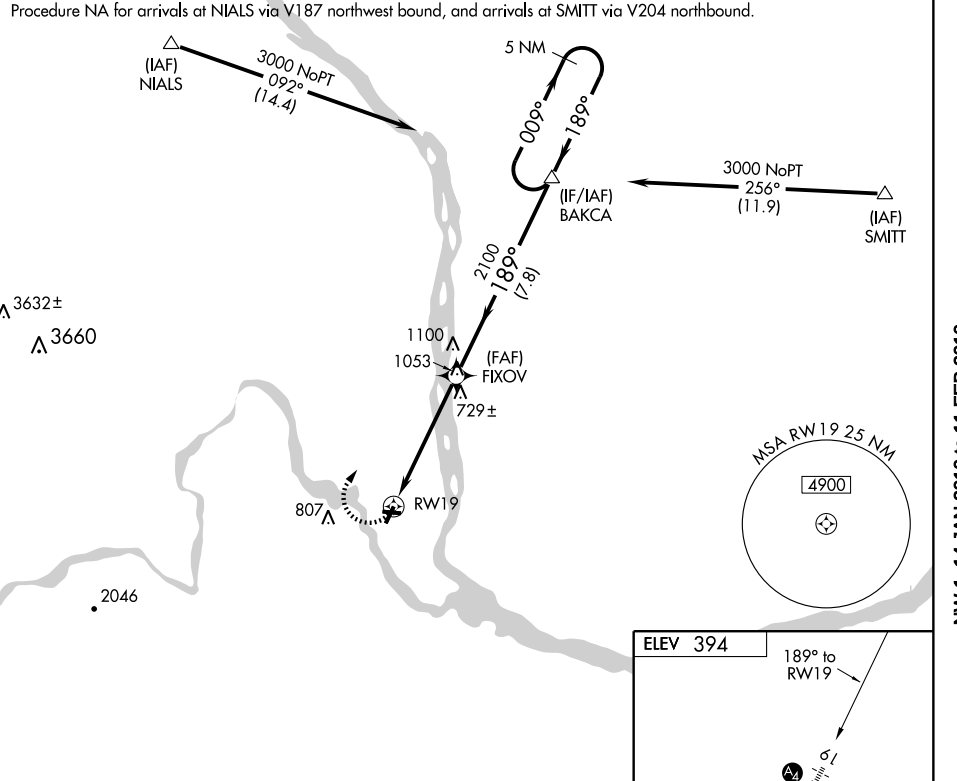
	4000	I-RLD NE Crs	BAKCA	BAKCA I-RLD 13.7	One Minute Holding Pattern
	038°				
		HOTUX INT I-RLD 3.5			
		I-RLD 0.7	I-RLD 1.9	3.05° TCH 45	
		1.2 NM	1.6 NM	2.4 NM	7.8 NM
CATEGORY	A	B	C	D	
S-19	1320-1¼ 930 (1000-1¼)		1320-2¾ 930 (1000-2¾)	1320-3 930 (1000-3)	
CIRCLING	1320-1¼ 926 (1000-1¼)		1320-2¾ 926 (1000-2¾)	1320-3 926 (1000-3)	
HOTUX FIX MINIMUMS					
S-19	800-¾ 410 (500-¾)		800-1¼ 410 (500-1¼)	1100-2¼ 710 (800-2¼)	
CIRCLING	980-1 586 (600-1)	1000-1 606 (700-1)	1000-1¾ 606 (700-1¾)	1140-2½ 746 (800-2½)	

DME/DME-RNP-0.3 NA.
Inoperative table does not apply to Cat. C.

MALS

MISSED APPROACH: Climbing right turn to 3000 direct BAKCA and hold.

AWOS-3 132.675	CHINOOK APP CON* 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF)
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3000

BAKCA

VGSI and descent angles not coincident.

BAKCA

5 NM Holding Pattern

Profile view details:

- 3000 to 2100: 189°, 5.2 NM, TCH 45°.
- 2100 to RWY 19: 189°, 7.8 NM.
- 2100 to 3000: 009°/189°.

CATEGORY	A	B	C	D
RNAV MDA	1000-3/4 610 (700-3/4)		1000-13/4 610 (700-13/4)	1180-21/2 790 (800-21/2)
CIRCLING	1000-1 606 (700-1)		1000-13/4 606 (700-13/4)	1180-21/2 786 (800-21/2)

ELEV 394

Plan view details:

- 189° to RWY 19.
- TDZE 390.
- 3995 X 100.
- 4009 X 75.
- Altitudes: 424, 436.

REIL Rwy 1 and 19

MIRL Rwy 1-19

MIRL Rwy 8-26

WAAS Chan 50299 W26A	APP CRS 259°	Rwy Idg 3995 TDZE 389 Apt Elev 394
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RNAV (GPS) RWY 26

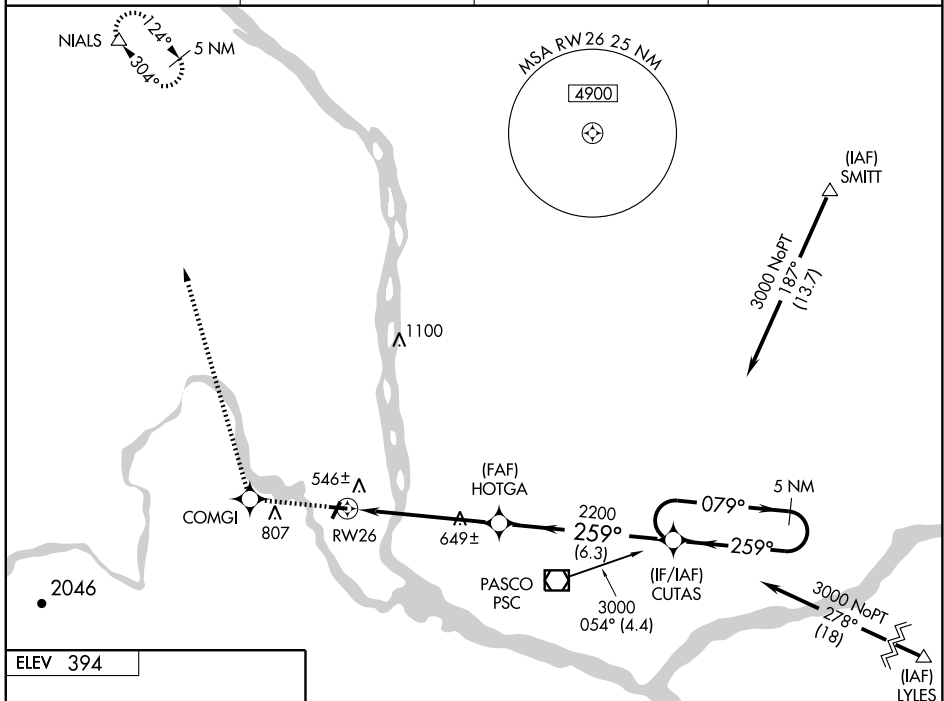
RICHLAND (RLD)



DME/DME RNP-0.3 NA. Baro-VNAV NA.

MISSED APPROACH: Climb to 3500 direct COMGI and via 327° track to NIALS and hold.

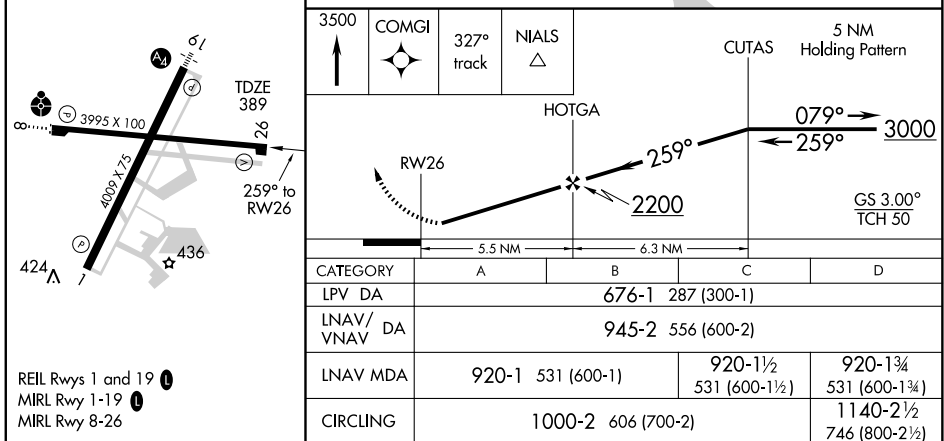
AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF) 0
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ELEV	394
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Procedure NA for arrivals at PSC VOR/DME via V187 southwest bound.

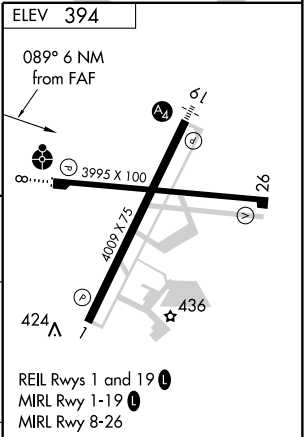
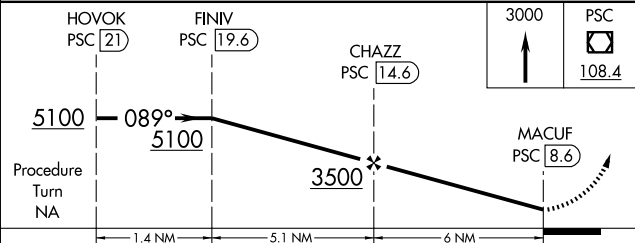
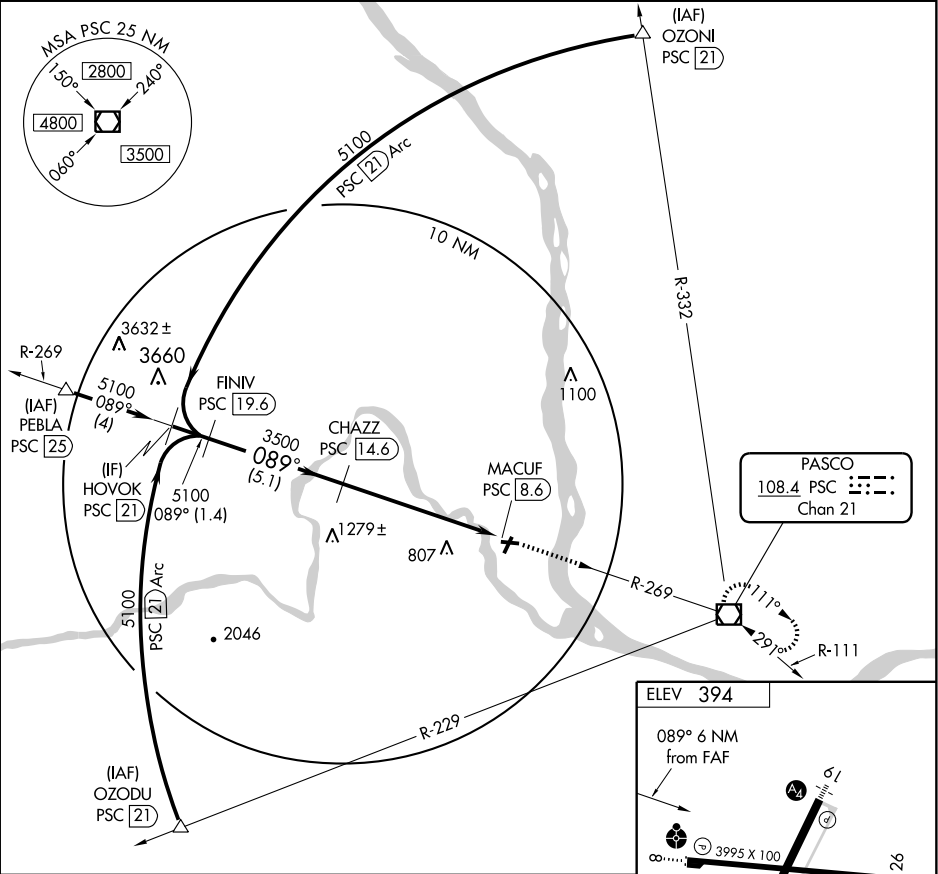


VOR/DME-A
RICHLAND (RLD)

VOR/DME PSC 108.4 Chan 21	APP CRS 089°	Rwy Idg TDZE Apt Elev	N/A N/A 394
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MISSED APPROACH: Climb to 3000 direct PSC VOR/DME and hold.

AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF) 0
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CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	1280-1¼	886 (900-1¼)	1280-2¾ 886 (900-2¾)	1280-3 886 (900-3)	Min:Sec					

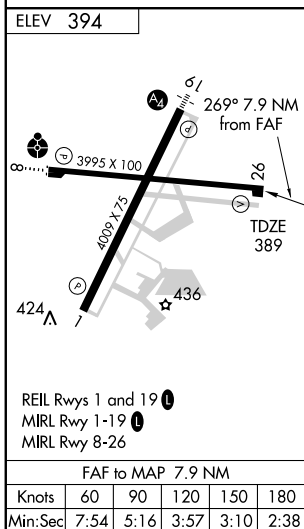
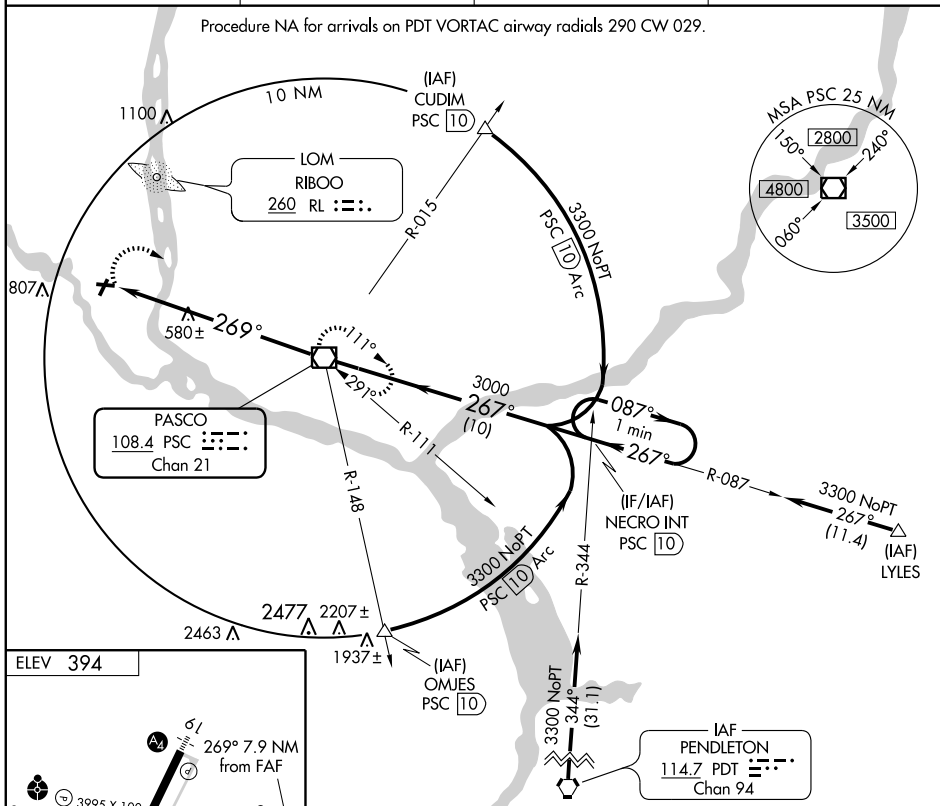
VOR RWY 26

RICHLAND (RLD)

VOR/DME PSC 108.4 Chan 21	APP CRS 269°	Rwy Idg TDZE Apt Elev 3995 389 394
--	------------------------	--

MISSED APPROACH: Climbing right turn to 3000 direct PSC VOR/DME and hold.

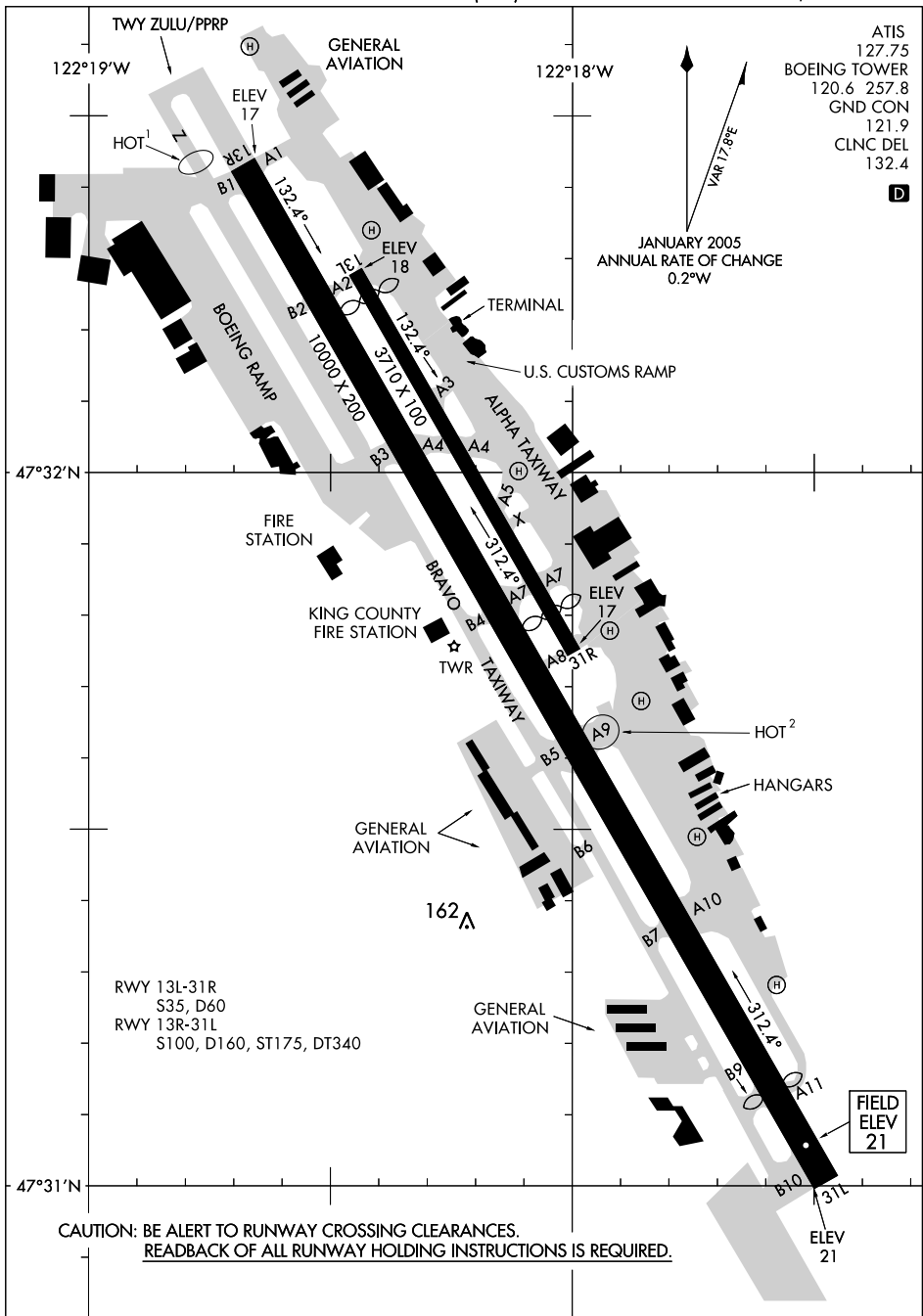
AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF) 0
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CATEGORY	A		B		C	D
	S-26		1000-1 611 (700-1)		1000-1¾ 611 (700-1¾)	1000-2 611 (700-2)
CIRCLING	1000-1		606 (700-1)		1000-1¾ 606 (700-1¾)	1140-2½ 746 (800-2½)

AIRPORT DIAGRAM

SEATTLE/FIELD COUNTY/KING COUNTY INTL (BFI)
AL-384 (FAA) SEATTLE, WASHINGTON

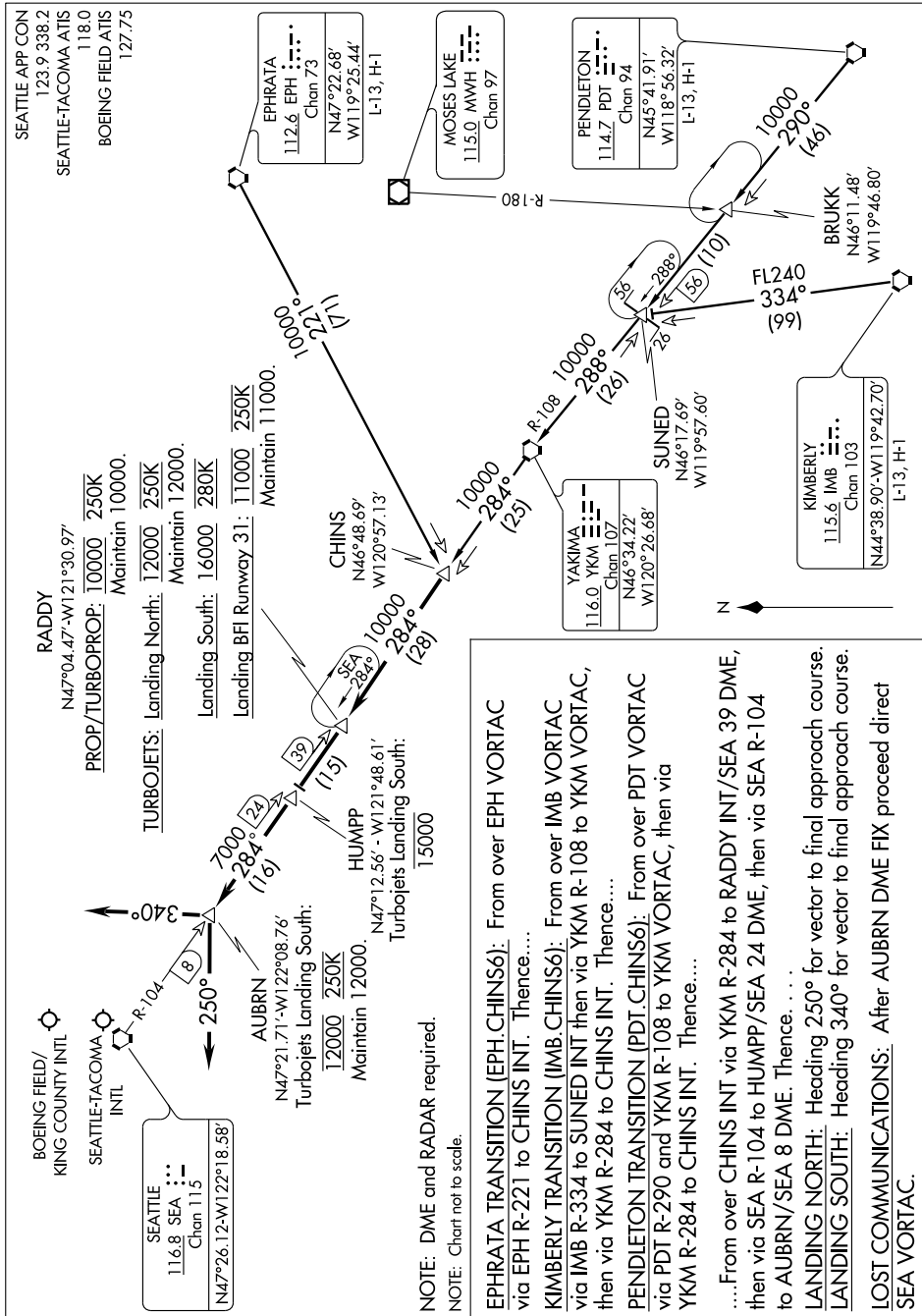


NW-1. 14 JAN 2010 to 11 FEB 2010

CHINS SIX ARRIVAL

ST-582 (FAA)

SEATTLE, WASHINGTON



SEATTLE APP CON

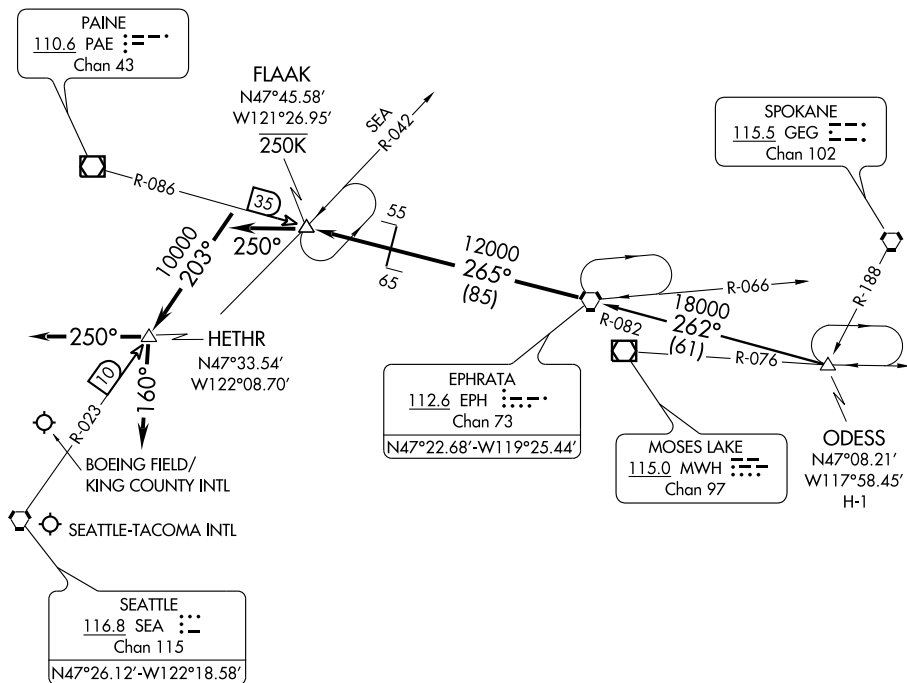
123.9 338.2

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75



NOTE: DME and RADAR required.

ODESS TRANSITION (ODESS.EPH6): From over ODESS INT via EPH R-082 to EPH VORTAC. Thence....

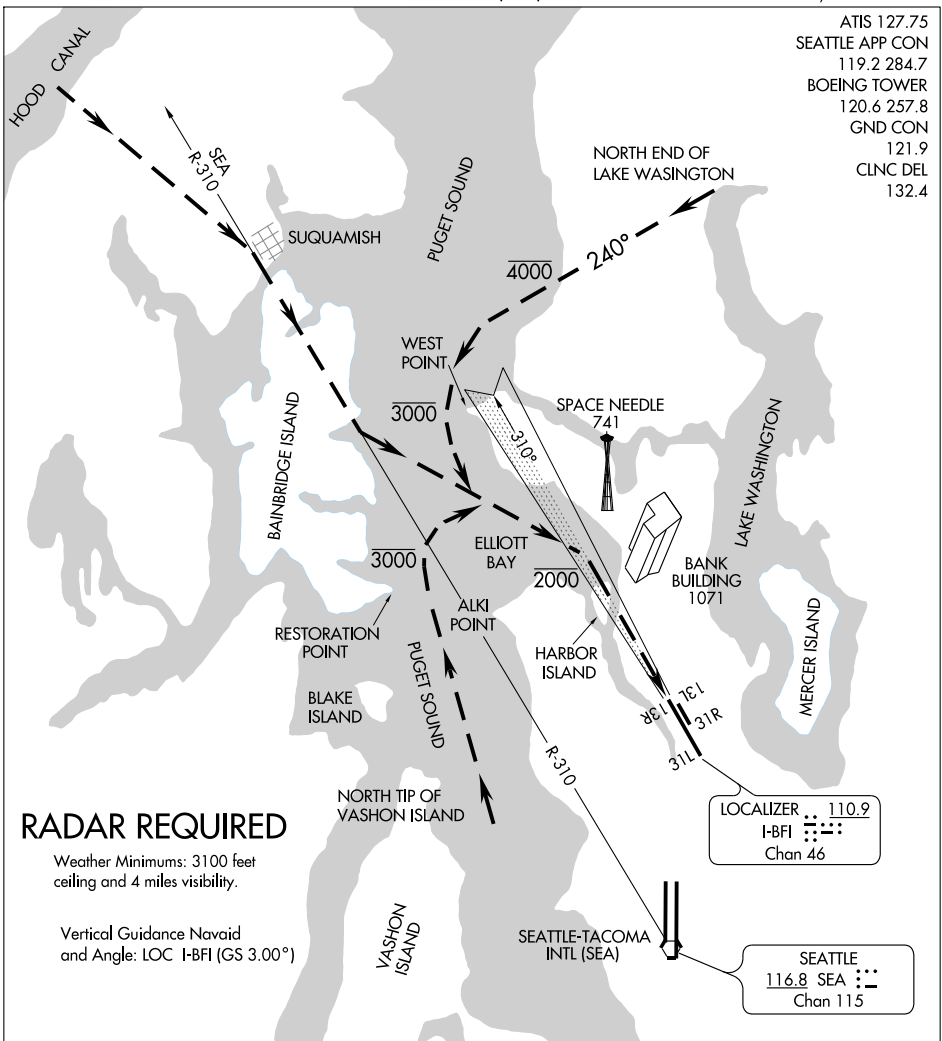
....From over EPH VORTAC via EPH R-265 and PAE R-086 to FLAAK INT. Then via heading 250° to intercept the SEA R-023, then via SEA R-023 to HETHR INT, thence....

LANDING NORTH: Heading 160° for vector to final approach course;

LANDING SOUTH: Heading 250° for vector to final approach course.

LOST COMMUNICATIONS: From over HETHR DME proceed direct SEA VORTAC.





NM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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HARBOR VISUAL APPROACH RWY 13R

Expect radar vectors from the Northwest, over the Hood Canal on the SEA R-310; from the North and Northeast, to the north end of Lake Washington; from the Southwest, South and Southeast, to Puget Sound abeam the north tip of Vashon Island. When cleared for the Harbor Visual Approach Runway 13R, proceed via the depicted routes over the middle of Puget Sound and Elliott Bay to Harbor Island and complete a straight in visual approach to Boeing Field/King County Intl Airport (BFI). Adherence to the recommended altitudes is strongly recommended to reduce the incidence of TCAS alarms. Visual approaches to Seattle-Tacoma Intl Airport (SEA) may be conducted simultaneously through Elliott Bay. It is essential that all aircraft remain in the center of Elliot Bay for noise abatement.

LOC/DME I-BFI	APP CRS	Rwy Idg	9120
110.9	130°	TDZE	18
Chan 46		Apt Elev	21

ILS RWY 13R

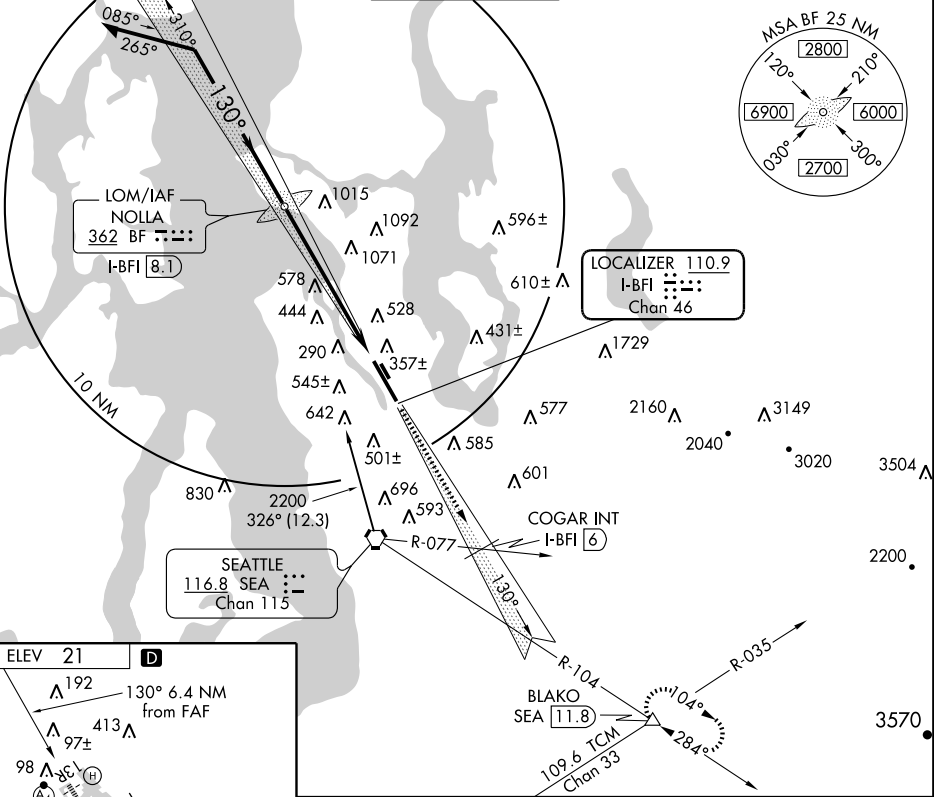
SEATTLE/BOEING FIELD/KING COUNTY INTL (BFI)

⚠ Inoperative table does not apply. Visibility reduction by helicopters NA. Circling requires descent on GS to MDA. Front course unusable beyond 20 degrees left of course.

MALSF

MISSED APPROACH: Climb to 2000 via I-BFI SE course to COGAR/I-BFI 6 DME/SEA R-077, then continue climb to 6400 via I-BFI SE course and SEA R-104 to BLAKO Int/SEA 11.8 DME and hold, continue climb-in-hold to 6400.

ATIS	SEATTLE APP CON	BOEING TOWER	GND CON	CLNC DEL
127.75	119.2 284.7	120.6 257.8	121.9	132.4



ELEV 21	D
130° 6.4 NM from FAF	
192	413
97±	
98	
138	
TDZE 18	
TWR 112	
162	
180±	
311	
59	

MIRL Rwy 13L-31R
HIRL Rwy 13R-31L
REIL Rws 13L, 31L and 31R

FAF to MAP 6.4 NM

Knots	60	90	120	150	180
Min:Sec	6:24	4:16	3:12	2:34	2:08

Remain within 10 NM

NOLLA LOM I-BFI 8.1

2000 I-BFI SE CRS

COGAR I-BFI 6

6400 I-BFI SE CRS

SEA R-104 11.8

BLAKO

2200 130° 2123

GS 3.00° TCH 40

2200

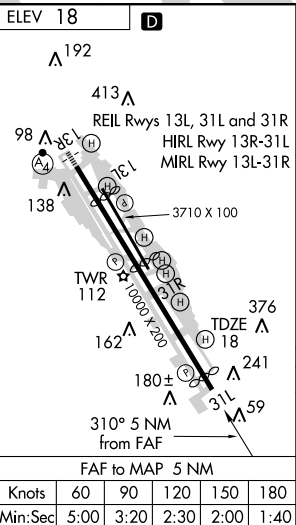
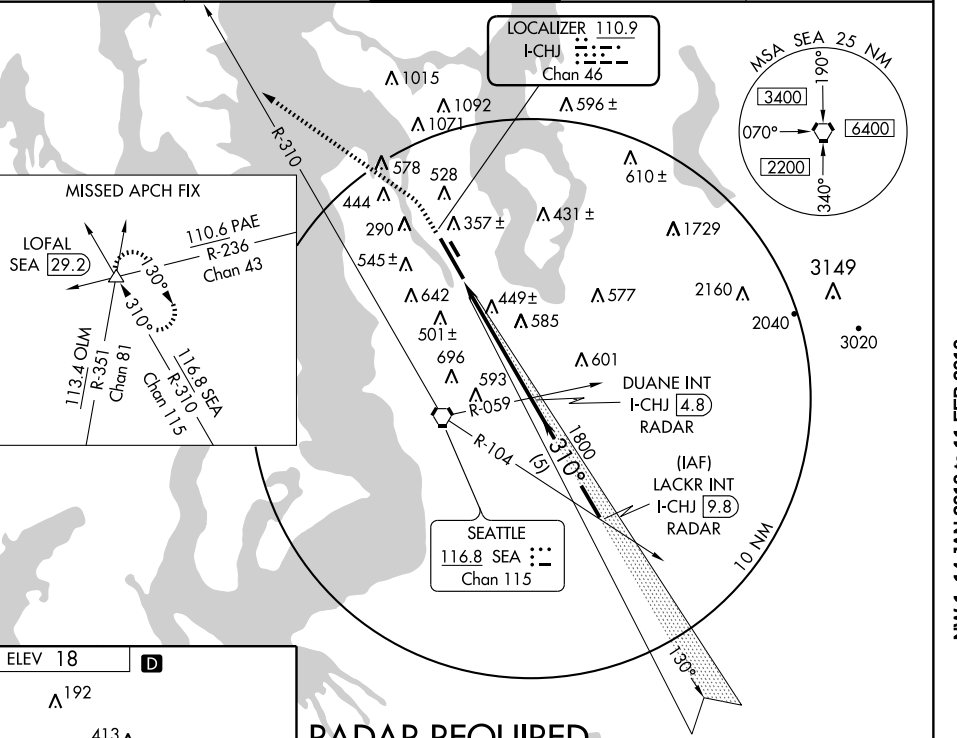
6.4 NM

VGSI and ILS glidepath not coincident.

CATEGORY	A	B	C	D
S-ILS 13R	291/50 273 (300-1)			
CIRCLING	780-1 759 (800-1)	840-1¼ 819 (900-1¼)	900-2½ 879 (900-2½)	960-3 939 (1000-3)

MISSED APPROACH: Climb to 700 then climbing left turn to 6000 via heading 285° and SEA R-310 to LOFAL Int/SEA 29.2 DME and hold.

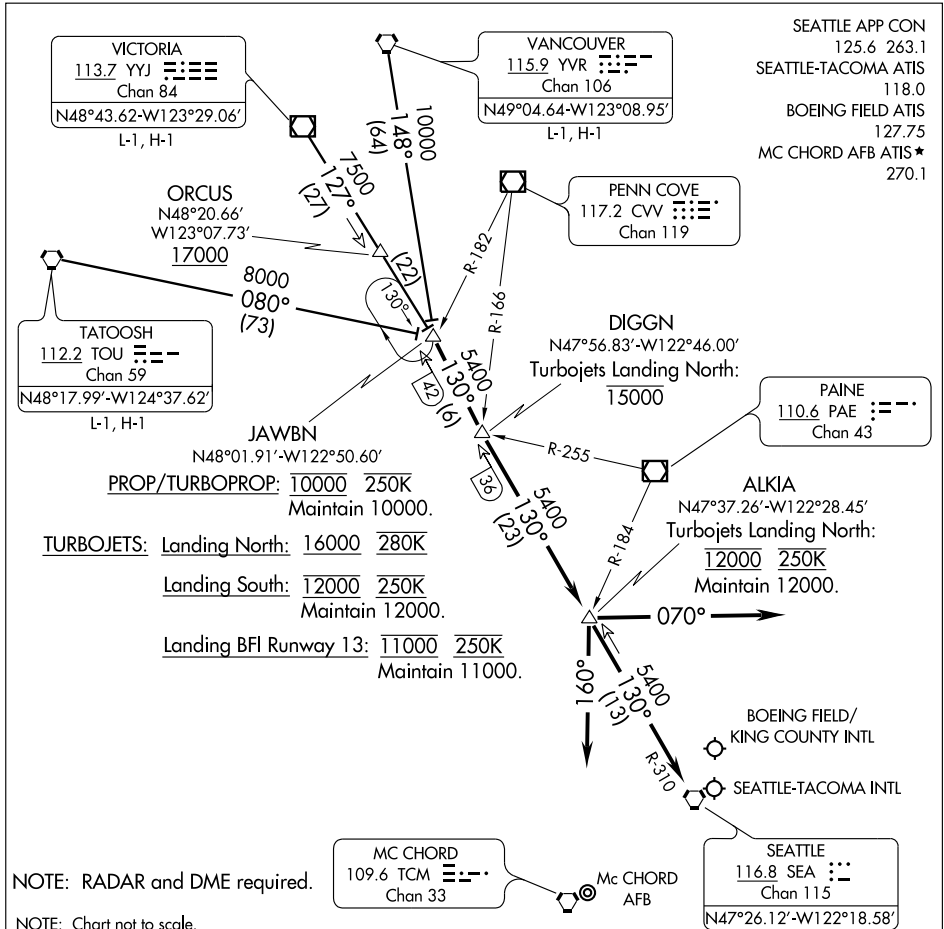
ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4
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RADAR REQUIRED

700 ↑	6000 ↖ 285°	SEA R-310 <u>116.8</u>	LOFAL △	DUANE INT I-CHJ <u>4.8</u> RADAR	LACKR INT I-CHJ <u>9.8</u> RADAR
Use I-CHJ DME when on LOC course.					

NW-1. 14 JAN 2010 to 11 FEB 2010



TATOOSH TRANSITION (TOU.JAWBN1): From over TOU VORTAC via TOU R-080 to JAWBN INT. Thence....

VANCOUVER TRANSITION (YVR.JAWBN1): From over YVR VORTAC via YVR R-148 to JAWBN INT. Thence....

VICTORIA TRANSITION (YYJ.JAWBN1): From over YYJ VOR/DME via YYJ R-127 to JAWBN INT. Thence....

....From over JAWBN INT/SEA 42 DME via SEA R-310 to DIGGN/SEA 36 DME then via SEA R-310 to ALKIA INT/SEA 13 DME, thence....

LANDING NORTH: Depart ALKIA INT heading 160° for vectors to final approach course.

LANDING SOUTH: Depart ALKIA INT heading 070° for vectors to final approach course.

LANDING McCHORD AFB: After ALKIA INT proceed direct SEA VORTAC.

LOST COMMUNICATIONS: After ALKIA INT proceed direct SEA VORTAC.

KENT FOUR DEPARTURE

SEATTLE/BOEING FIELD/KING COUNTY INTL (BFI)
SL-384 (FAA) SEATTLE, WASHINGTON

ATIS 127.75
CLNC DEL
132.4
GND CON
121.9
BOEING TOWER
120.6 257.8
SEATTLE DEP CON
119.2 284.7

VANCOUVER
115.9 YVR
Chan 106
N49°04.64'-W123°08.95'

CRANBROOK
112.1 YXC
Chan 58
N49°33.30'-W116°05.27'

TAKE-OFF OBSTACLES:
463' Tree
288' Tree
DEPARTURE OBSTACLES:
620' Tower
558' Tree
562' Tank

VICTORIA
113.7 YYJ
Chan 84
N48°43.62'-W123°29.06'

WHATCOM
113.0 HUH
Chan 77
N48°56.72'-W122°34.76'

PAINE
110.6 PAE
Chan 43
N47°55.19'-W122°16.67'

MOSES LAKE
115.0 MWH
Chan 97
N47°12.65'-W119°19.01'

SEATTLE
116.8 SEA
Chan 115
N47°26.12'-W122°18.58'

WENATCHEE
111.0 EAT
Chan 47
N47°23.98'-W120°12.65'

McCHORD
109.6 TCM
Chan 33
N47°08.86'-W122°28.50'

HOQUIAM
117.7 HQM
Chan 124
N46°56.82'-W124°08.96'

OLYMPIA
113.4 OLM
Chan 81
N46°58.30'-W122°54.11'

ELLENSBURG
117.9 ELN
Chan 126
N47°01.46'-W120°27.51'

BATTLE GROUND
116.6 BTG
Chan 113
N45°44.87'-W122°35.49'

YAKIMA
116.0 YKM
Chan 107
N46°34.22'-W120°26.68'

TAKE-OFF Rwy 13L/R: Standard with a minimum climb of 380' per NM to 700'.

NOTE: Chart not to scale.

NOTE: No left turns authorized until leaving 1000'.

NW-1, 14 JAN 2010 to 11 FEB 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 13L/R: Climb runway heading, expect radar vectors to assigned route/fix. Maintain 2000 or ATC assigned altitude, expect clearance to filed altitude within 3 minutes after departure.

LOST COMMUNICATIONS: If no contact with departure control within 3 minutes after departure, climbing right turn direct SEA VORTAC, climb in SEA VORTAC holding pattern (E, left turn 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight before proceeding enroute.

LOC/DME I-BFI	APP CRS	Rwy Idg	9120
110.9	130°	TDZE	18
Chan 46		Apt Elev	21

LOC/DME RWY 13R

SEATTLE/BOEING FIELD/KING COUNTY INTL (BFI)

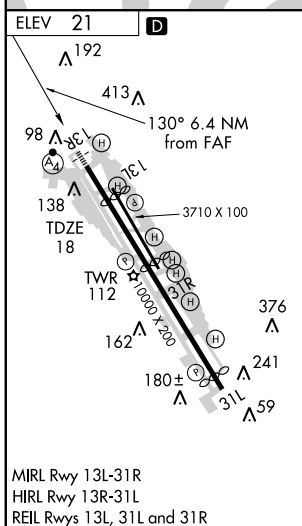
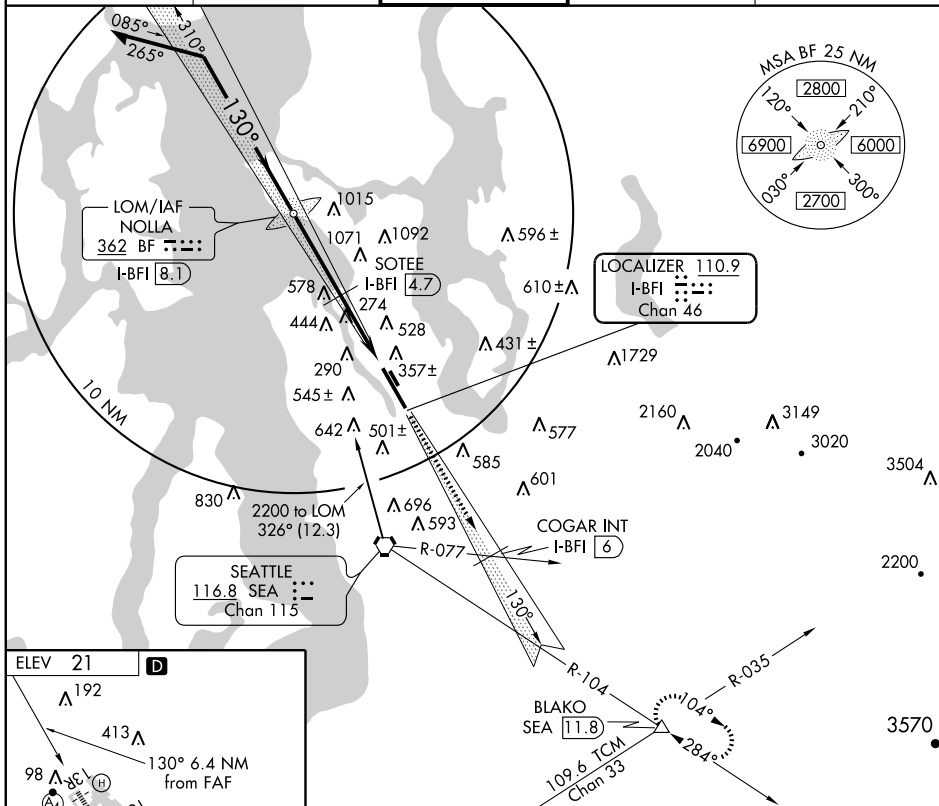
▼ Inoperative table does not apply. Visibility reduction by helicopters NA. Front course unusable beyond 20 degrees left of course.

MALSF



MISSED APPROACH: Climb to 2000 via I-BFI SE course to COGAR/I-BFI 6 DME/SEA R-077, then continue climb to 6400 via I-BFI SE course and SEA R-104 to BLAKO Int/SEA 11.8 DME and hold, continue climb-in-hold to 6400.

ATIS	SEATTLE APP CON	BOEING TOWER	GND CON	CLNC DEL
127.75	119.2 284.7	120.6 257.8	121.9	132.4



Remain within 10 NM	NOLLA LOM I-BFI 8.1	2000 I-BFI SE CRS	COGAR I-BFI 6	6400 I-BFI SE CRS	SEA R-104 116.8	BLAKO
2200	2200	1080	1080	1080	1080	1080
VGSI and descent angles not coincident.	3.4 NM	3 NM	3 NM	3 NM	3 NM	3 NM
CATEGORY	A	B	C	D		
S-LOC 13R	560/50	542 (600-1)	560-1½ 542 (600-1½)	560-1¾ 542 (600-1¾)		
CIRCLING	780-1 759 (800-1)	840-1¼ 819 (900-1¼)	900-2½ 879 (900-2½)	960-3 939 (1000-3)		

NEEDLE SIX DEPARTURE

SEATTLE/ BOEING FIELD/KING COUNTY INTL (BFI)
SL-384 (FAA)

SEATTLE, WASHINGTON

ATIS 127.75
CLNC DEL
132.4
GND CON
121.9
BOEING TOWER
120.6 257.8
SEATTLE DEP CON
119.2 284.7

VANCOUVER
115.9 YVR
Chan 106
N49°04.64'-W123°08.95'
L-1, H-1

CRANBROOK
112.1 YXC
Chan 58
N49°33.30'-W116°05.27'
H-1

WHATCOM
113.0 HUH
Chan 77
N48°56.72'-W122°34.76'
L-1, H-1

TAKE-OFF OBSTACLES:
192' Flagpole
350' Tower

DEPARTURE OBSTACLES:
1071' Building
578' Towers

VICTORIA
113.7 YYJ
Chan 84
N48°43.62'-W123°29.06'
L-1, H-1

SEATTLE
116.8 SEA
Chan 115
N47°26.12'-W122°18.58'
L-1, H-1

PAINE
110.6 PAE
Chan 43
N47°55.19'-W122°16.66'
L-1

WENATCHEE
111.0 EAT
Chan 47
N47°23.98'-W120°12.65'
L-13

MOSES LAKE
115.0 MWH
Chan 97
N47°12.65'-W119°19.01'
L-13, H-1

HOQUIAM
117.7 HQM
Chan 124
N46°56.82'-W124°08.96'
L-1, H-1

OLYMPIA
113.4 OLM
Chan 81
N46°58.30'-W122°54.11'
L-1, H-1

ELLENSBURG
117.9 ELN
Chan 126
N47°01.46'-W120°27.51'
L-13

BATTLE GROUND
116.6 BTG
Chan 113
N45°44.87'-W122°35.49'
L-1, H-1

YAKIMA
116.0 YKM
Chan 107
N46°34.22'-W120°26.68'
L-13, H-1

TAKE-OFF Rwy 31L/R: Standard with a minimum climb of
350' per NM to 1300'.

NOTE: No right turns authorized until leaving 1300'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 31L/R: Climb runway heading, expect radar vectors to assigned route/fix. Maintain 2000 or ATC assigned altitude, expect clearance to filed altitude within 3 minutes after departure.

LOST COMMUNICATIONS: If no contact with departure control within 3 minutes after departure, climbing left turn direct SEA VORTAC, climb in SEA VORTAC holding pattern (E, left turn 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight before proceeding enroute.

OLYMPIA SIX ARRIVAL

ST-582 (FAA)

SEATTLE, WASHINGTON

SEATTLE APP CON

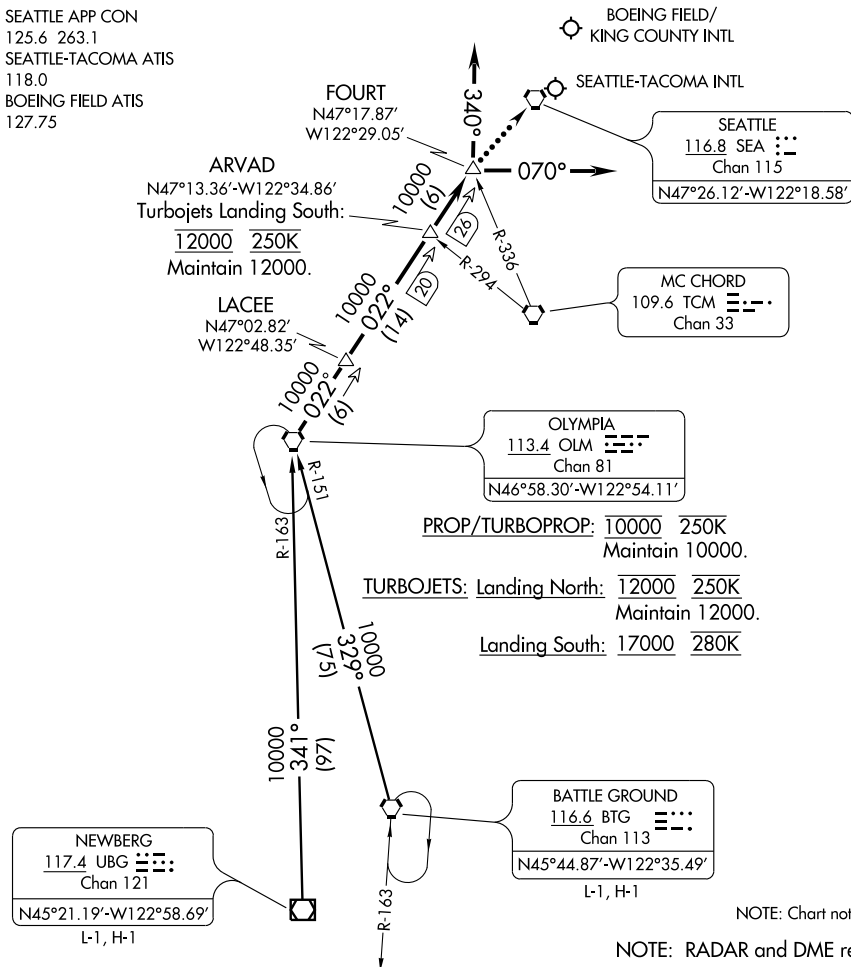
125.6 263.1

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75



BATTLE GROUND TRANSITION (BTG.OLM6): From over BTG VORTAC via BTG R-329 and OLM R-151 to OLM VORTAC. Thence....

NEWBERG TRANSITION (UBG.OLM6): From over UBG VOR/DME via UBG R-341 and OLM R-163 to OLM VORTAC. Thence....

....From over OLM VORTAC via OLM R-022 to LACEE/OLM 6 DME, then via OLM R-022 to ARVAD INT/OLM 20 DME, then via OLM R-022 to FOURT INT/OLM 26 DME, thence...

LANDING NORTH: Depart FOURT INT/OLM 26 DME heading 070° for vectors to final approach course.

LANDING SOUTH: Depart FOURT INT/OLM 26 DME heading 340° for vectors to final approach course.

LOST COMMUNICATIONS: From over FOURT INT/OLM 26 DME, proceed direct SEA VORTAC.

T

A

Circling to Rwy 13L/31R NA at night.
Inoperative table does not apply.
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.

MALSF

MISSED APPROACH: Climb to 6400 direct DUANE and via 117° track to BLAKO and hold, continue climb-in-hold to 6400.

ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4
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MIRL Rwy 13L-31R
HIRL Rwy 13R-31L
REIL Rwy 13L, 31L and 31R

	JUGOK	FISEN	ZAGRO 3.4 NM to RW13R	DUANE	117° track	BLAKO
	2900	1700	1280	6400		
	Procedure Turn NA	TCH 50	2 NM to RW13R	VGSi and descent angles not coincident		
	6 NM	1.1 NM	1.4 NM	2 NM		
CATEGORY	A	B	C	D		
LNAV MDA	720/50	703 (700-1)	720-2 703 (700-2)	720-2¼ 703 (700-2¼)		
CIRCLING	780-1 759 (800-1)	840-1¼ 819 (900-1¼)	900-2¾ 879 (900-2¾)	960-3 939 (1000-3)		

NW-1, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	9120
130°	TDZE	18
	Apt Elev	21

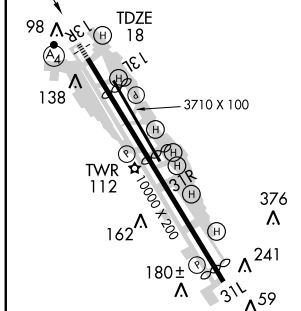
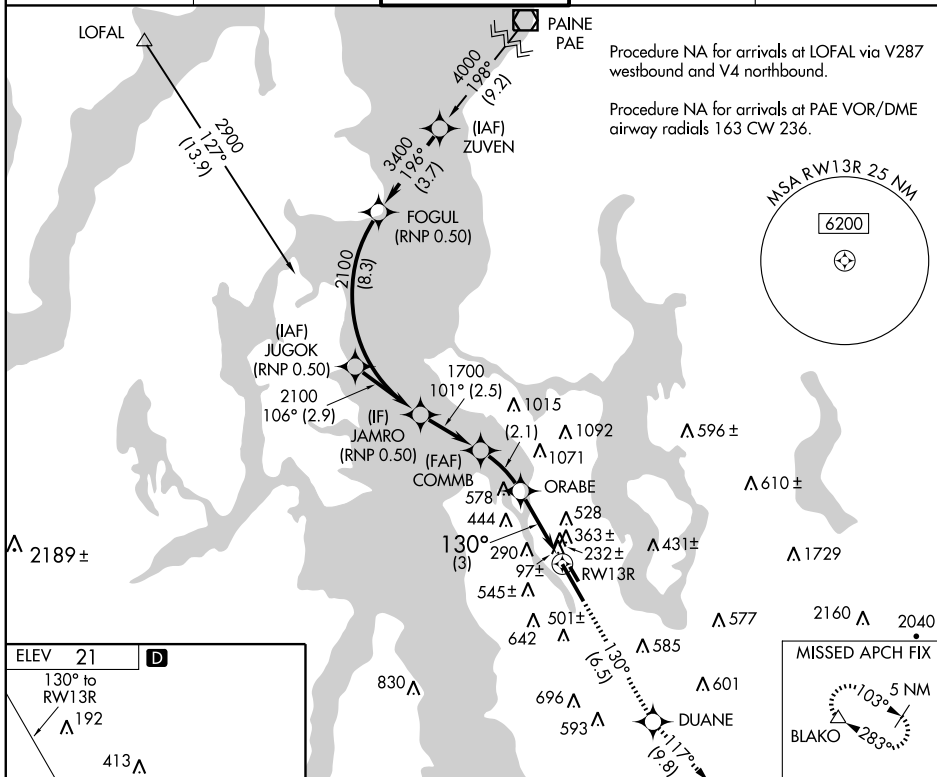
RNAV (RNP) Z RWY 13R

SEATTLE/ BOEING FIELD/KING COUNTY INTL (BFI)

GPS and RF required. For uncompensated Baro-VNAV systems, procedure NA below -3°C (26°F) or above 48°C (119°F). For inoperative MALSF, increase RNP 0.15 visibility to 1¼, RNP 0.30 to 2¼.

MALSF  **MISSED APPROACH:** Climb to 2000 via 130° track to DUANE then climb to 6400 via 117° track to BLAKO and hold. Continue climb-in-hold to 6400.

ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4
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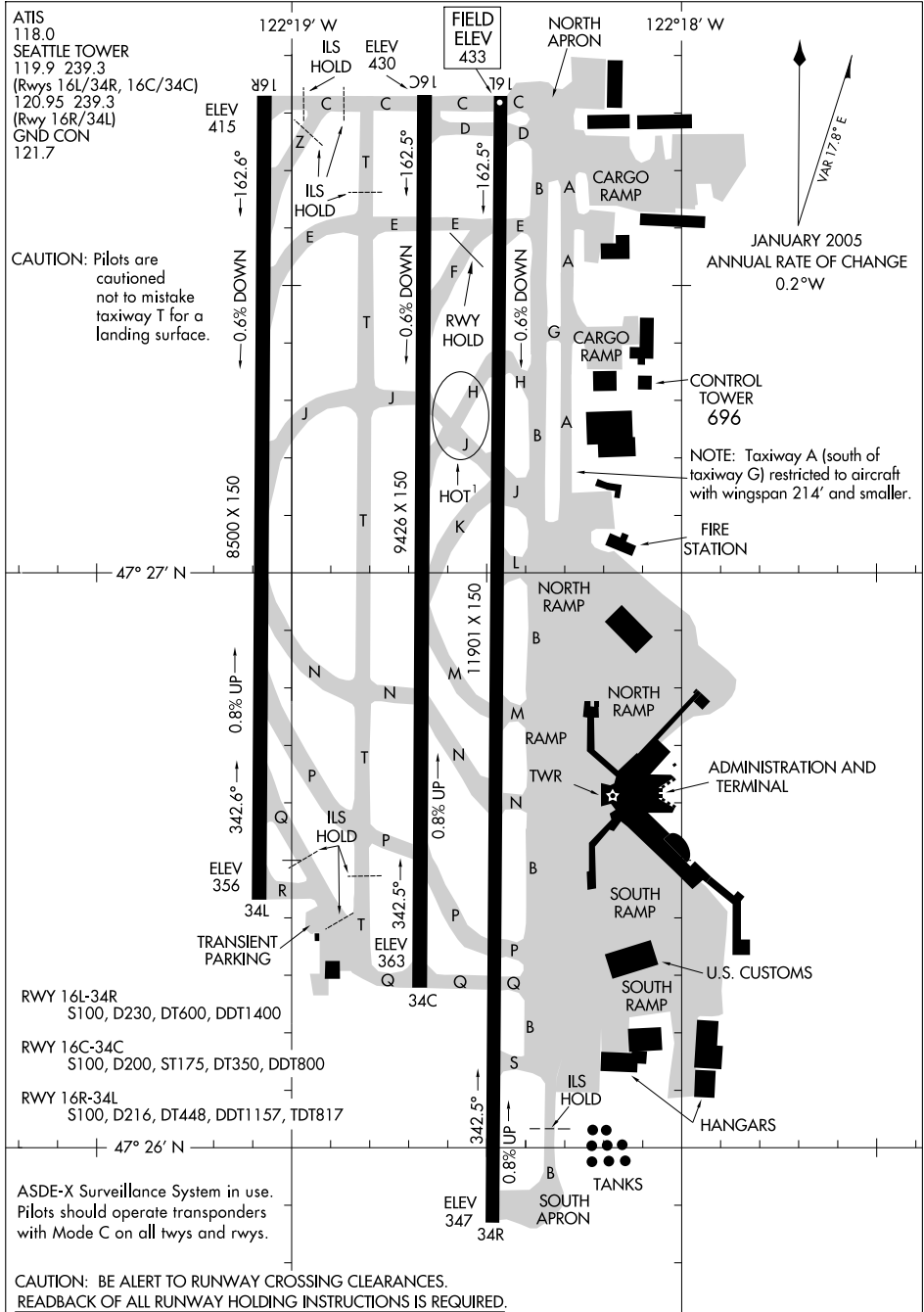
JAMRO	2100	Procedure Turn NA	GP 3.00° TCH 50	2000	DUANE	6400	BLAKO
2100	101°	1700	130°	130°	117°		
COMMB	1700	ORABE	1031				
2.5 NM	2.1 NM	3 NM					
CATEGORY	A	B	C	D			
RNP 0.15 DA	523-1½ 505 (600-1½)						
RNP 0.30 DA	637-2 619 (700-2)						

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

MIRL Rwy 13L-31R
HIRL Rwy 13R-31L
REIL Rwy 13L, 31L and 31R

AIRPORT DIAGRAM

AL-582 (FAA)

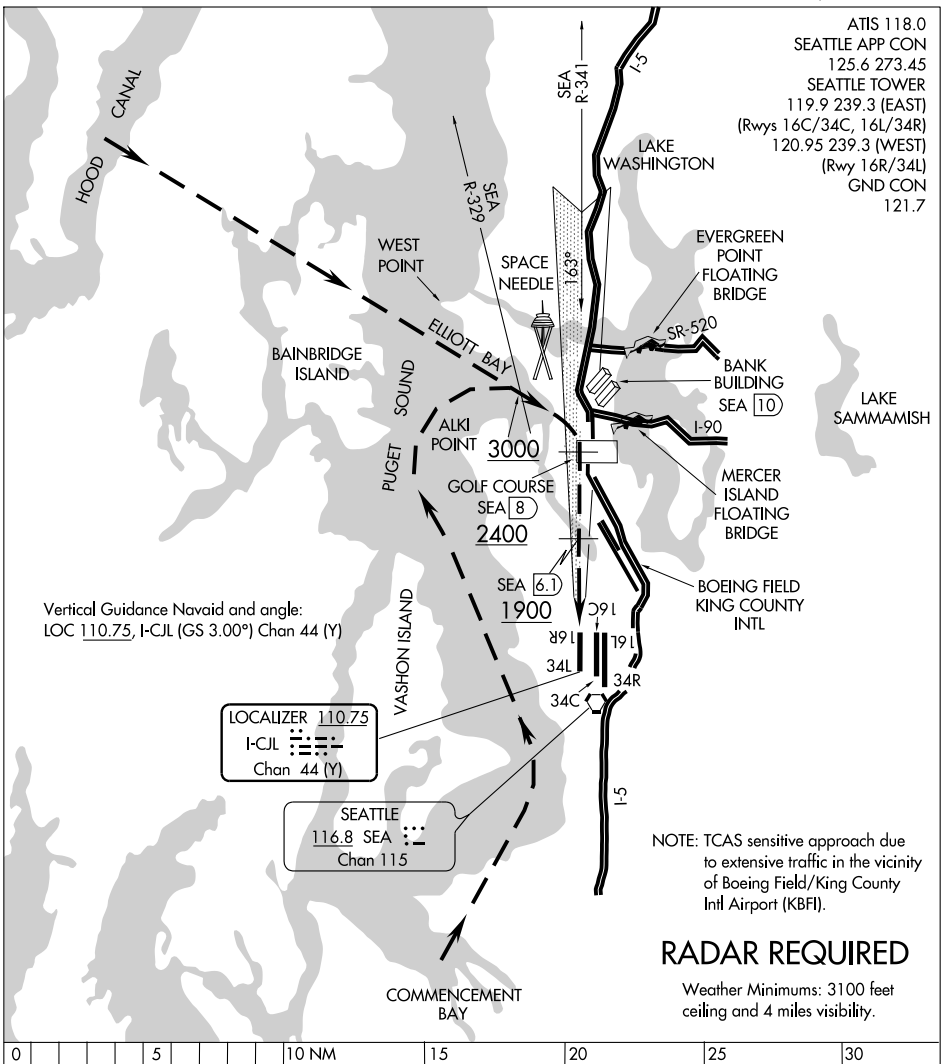
SEATTLE-TACOMA INTL (SEA)
SEATTLE, WASHINGTON

ALKI VISUAL RWY 16R

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



ALKI VISUAL APPROACH RWY 16R

When the ceiling is at least 3100' and visibility is at least 4 miles, aircraft may be vectored over Puget Sound for an Alki Visual Runway 16R Approach. When cleared for an Alki Visual Approach: proceed inbound visually over the middle of Elliott Bay (via route depicted); intercept the Runway 16R Localizer/SEA R-341 on Runway 16R extended centerline at the golf course (8 DME) and complete a straight in visual approach to the airport. On final approach, a descent profile of approximately 300' per mile may be made with reference to the altitudes shown at the visual checkpoints or associated DME/fix positions.

BANGR SIX DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb direct CAVOB, then via 165° track to cross RENBE at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 16C: Climb direct OTLIE, then via 163° track to cross RENBE at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 16R: Climb direct WESET, then via 160° track to cross RENBE at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to BANGR, thence. . . .

. . . . via (transition). Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA VORTAC.

ARRIE TRANSITION (BANGR6.ARRIE)

PANGL TRANSITION (BANGR6.PANGL)

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

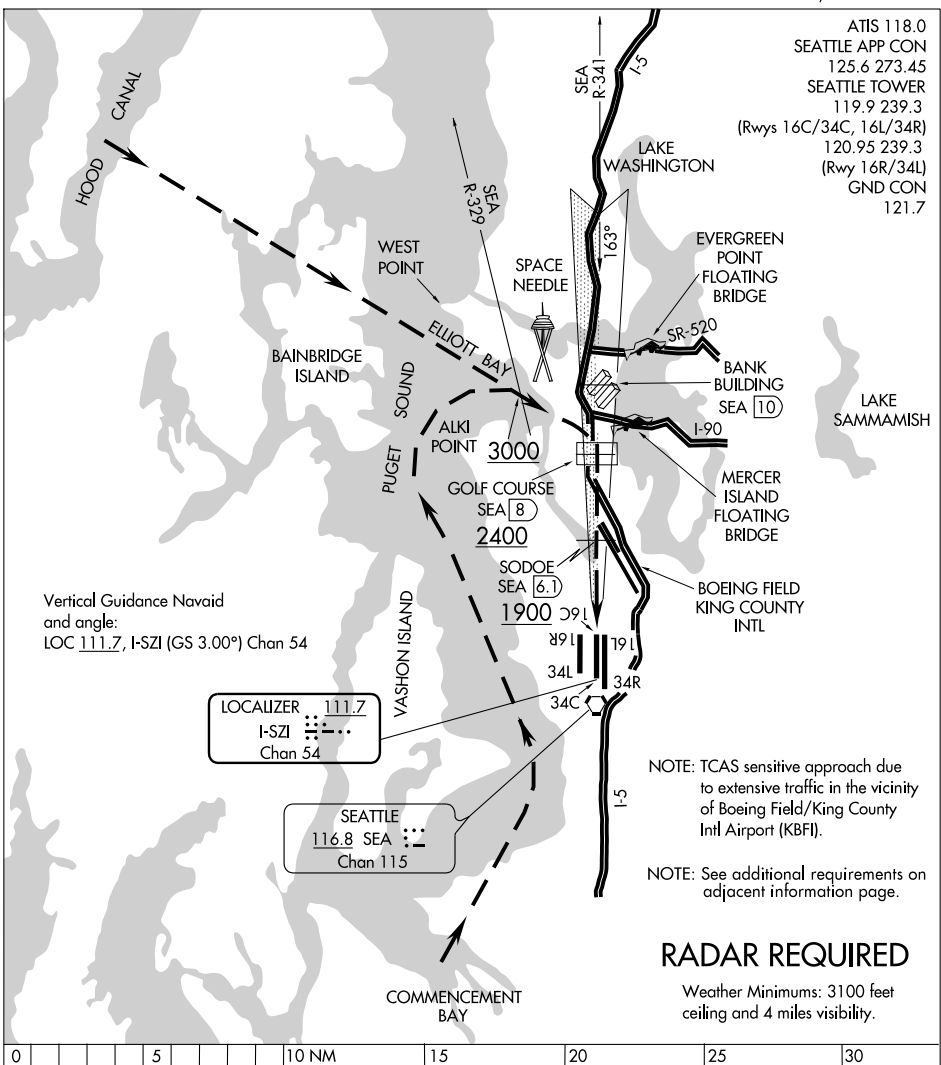
Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

BAY VISUAL RWY 16C

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



BAY VISUAL APPROACH RWY 16C

When the ceiling is at least 3100' and visibility is at least 4 miles, aircraft may be vectored over Puget Sound for a Bay Visual Runway 16C Approach. When cleared for a Bay Visual Approach: proceed inbound visually over the middle of Elliott Bay (via route depicted); intercept the Runway 16C Localizer/SEA R-341 on Runway 16C extended centerline at the golf course (8 DME) and complete a straight in visual approach to the airport. On final approach, a descent profile of approximately 300' per mile may be made with reference to the altitudes shown at the visual checkpoints or associated DME/fix positions.

SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

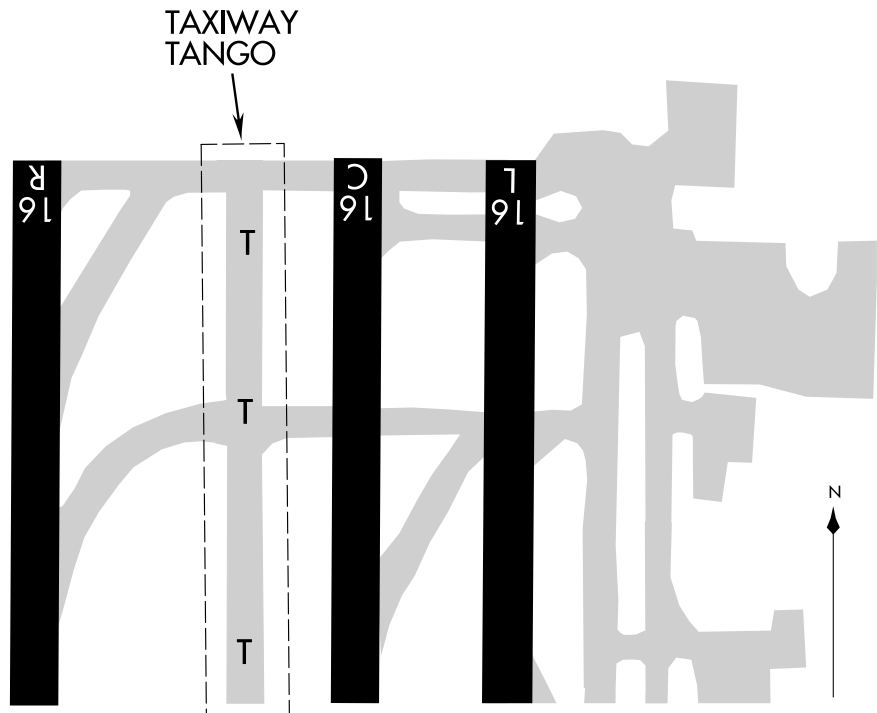
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify that you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

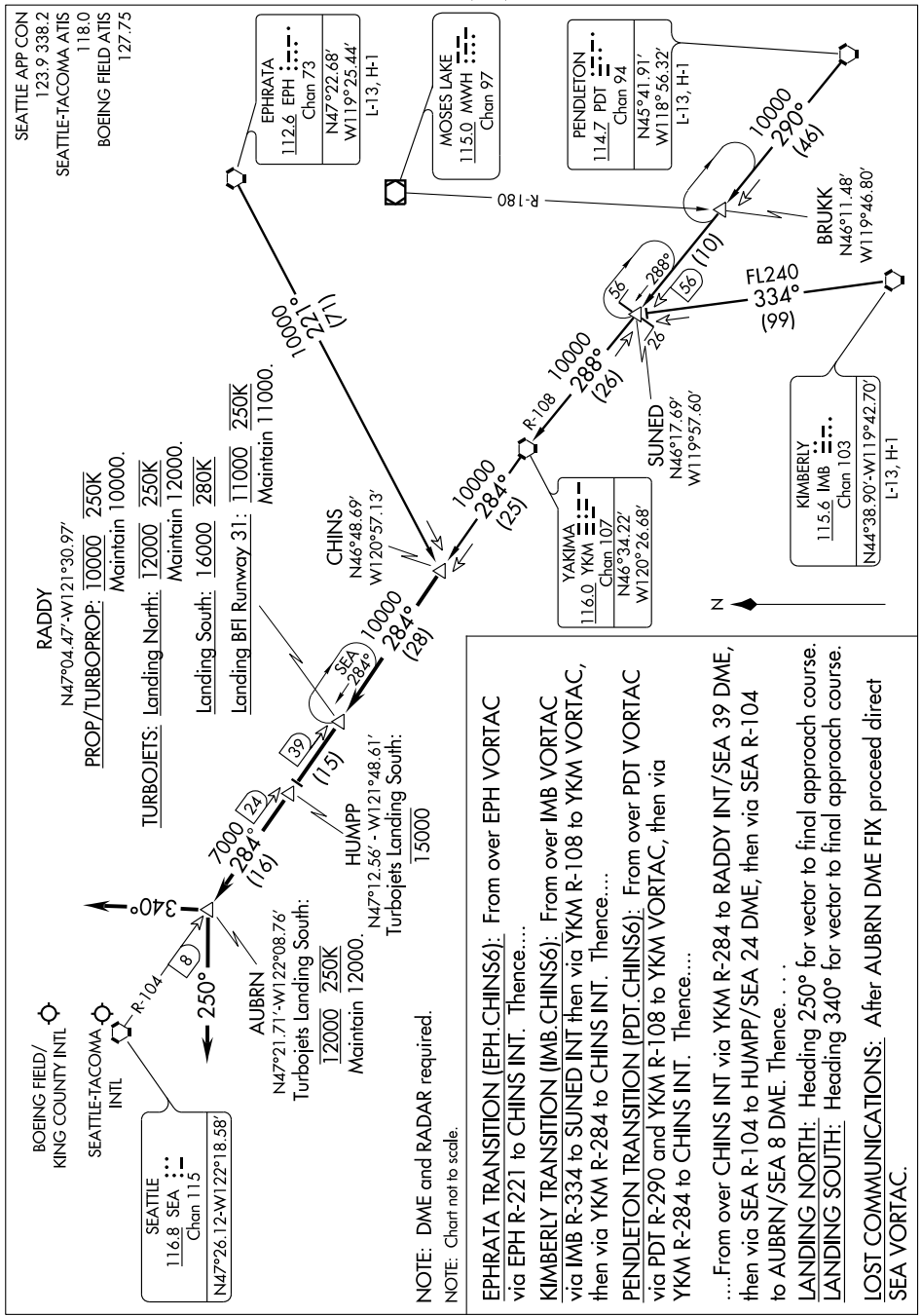
Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended to track the localizer until the runway environment is visually verified.

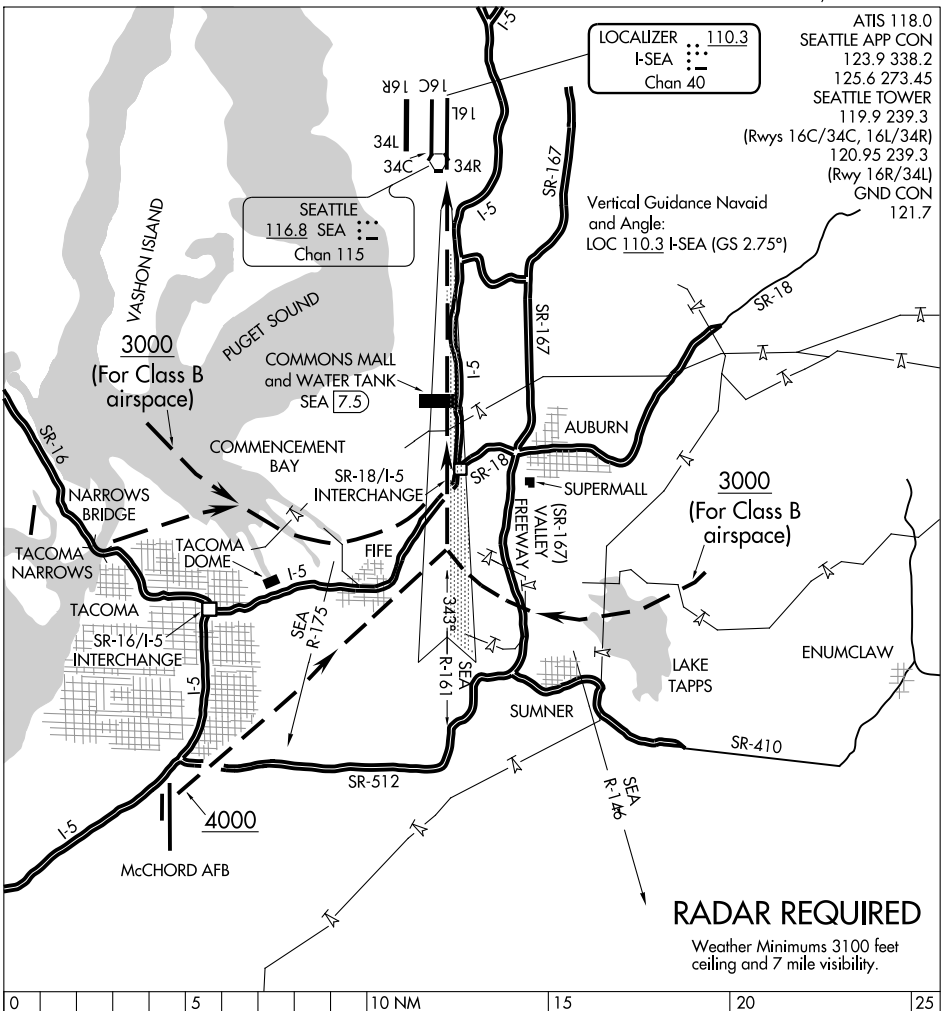


CHINS SIX ARRIVAL

ST-582 (FAA)

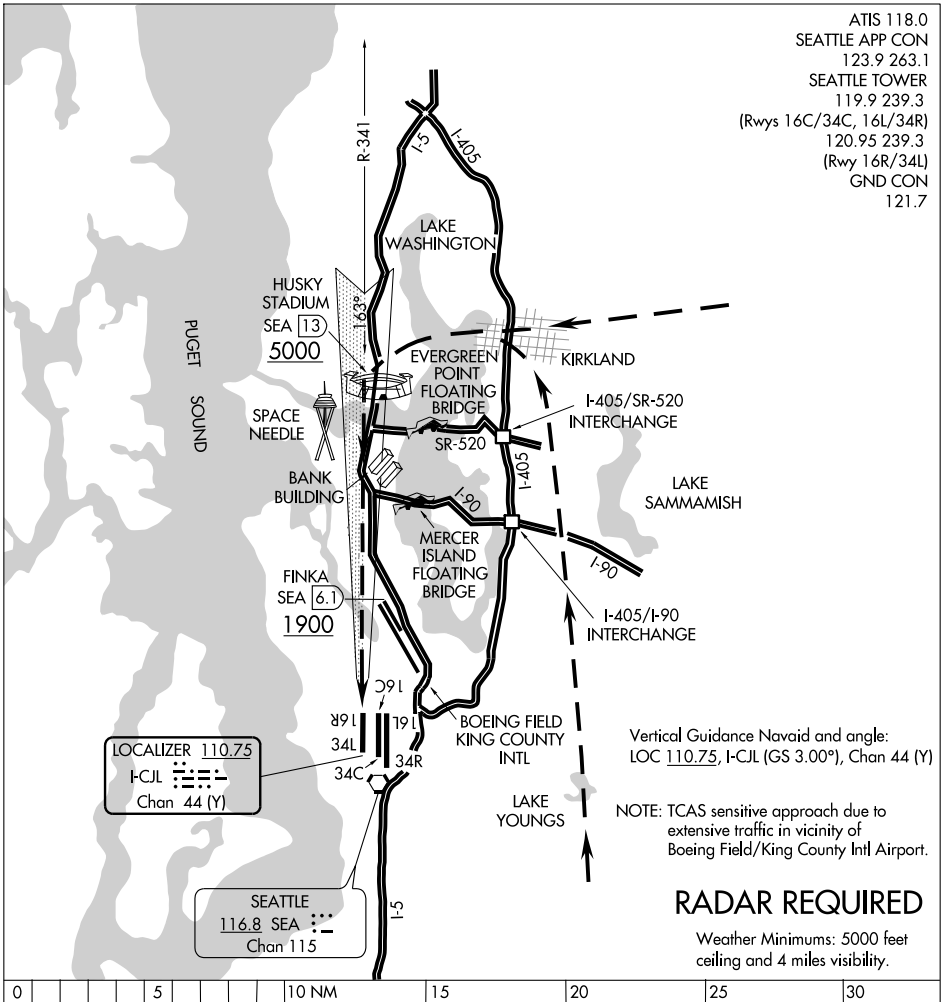
SEATTLE, WASHINGTON





COMMONS VISUAL APPROACH RWY 34R

When the ceiling is at least 3100' and visibility is at least 7 miles, aircraft may be vectored towards Commencement Bay or McChord AFB or Lake Tapps for a Commons Visual Runway 34R Approach. When cleared for this approach; proceed inbound visually using the depicted landmarks to the centerline of runway 34R. Turn final before or over the interchange of State Road 18 (SR-18) and Interstate 5. Be established on the localizer or runway centerline at the Commons Mall and Water Tank (7.5 DME) and proceed visually to the runway.



DAWG VISUAL APPROACH RWY 16R

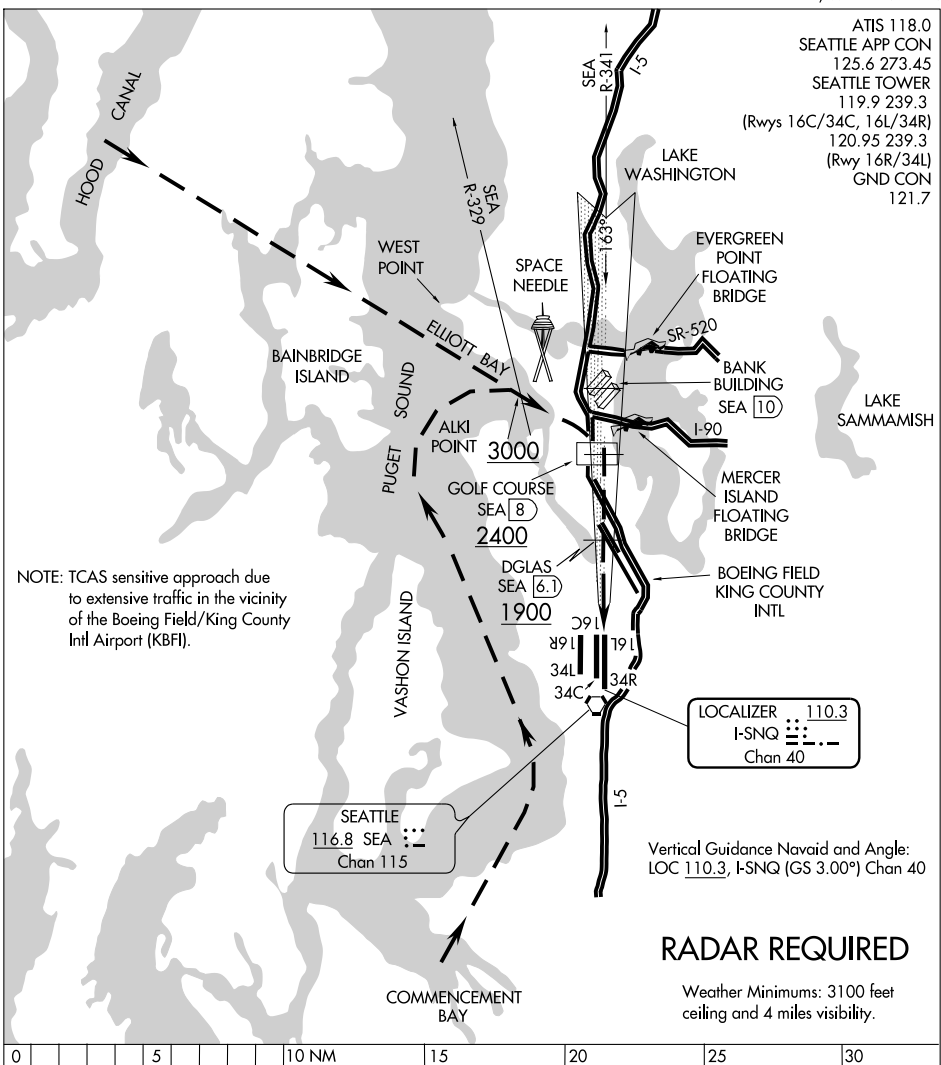
When the ceiling is at least 5000' and visibility is at least 4 miles, aircraft may be vectored over Kirkland or Lake Youngs for a Dawg Visual Runway 16R Approach. When cleared for a Dawg Visual Approach; proceed inbound visually over Husky Stadium (via route depicted); intercept the Runway 16R localizer/SEA R-341 at 13 DME and complete a straight in visual approach to the airport.

ELLIOTT VISUAL RWY 16L

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



ELLIOTT VISUAL APPROACH RWY 16L

When the ceiling is at least 3100' and visibility is at least 4 miles, aircraft may be vectored over Puget Sound for an Elliott Visual Runway 16L Approach. When cleared for an Elliott Visual Approach: proceed inbound visually over the middle of Elliott Bay (via route depicted); intercept the 16L Localizer/SEA R-341 on Runway 16L extended centerline at the golf course (8 DME) and complete a straight in visual approach to the airport. On final approach, a descent profile of approximately 300' per mile may be made with reference to the altitude shown at the visual checkpoints or associated DME/fix positions.

ATIS
118.0
SEATTLE DEP CON
120.4 395.0

VICTORIA
113.7 YYJ 
Chan 84

SEATTLE
116.8 SEA :
Chan 115
N47°26.12' - W122°18.58'

NICHY
N47°21.13'
W122°18.58'
3000
RADAR

TAKE-OFF MINIMUMS

Rwys 34L/C/R: NA

Rwys 16L/C/R: Standard.

Rwy 16L: ATC climb of 560' per NM to 3000.

Rwy 16C: ATC climb of 515' per NM to 3000.

Rwy 16R: ATC climb of 500' per NM to 3000.

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

NOTE: RADAR and DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb heading 164° and SEA R-161, thence. . .

TAKE-OFF RUNWAYS 16C/R: Climb heading 160° and SEA R-161, thence. . .

. . . to cross NICHY/5 DME/RADAR at or above 3000, then right turn heading 250° to intercept SEA R-230 to ELMAA INT, then via (transition/assigned route), expect filed altitude/flight level 15 NM from SEA.

CORVALLIS TRANSITION (ELMAA8.CVO): From over ELMAA INT via YYJ R-157 and CVO R-340 to CVO VOR/DME.

HOQUIAM TRANSITION (ELMAA8.HQM): From over ELMAA INT via HQM R-049 to HQM VORTAC.

NW-1. 14 JAN 2010 to 11 FEB 2010

SEATTLE APP CON

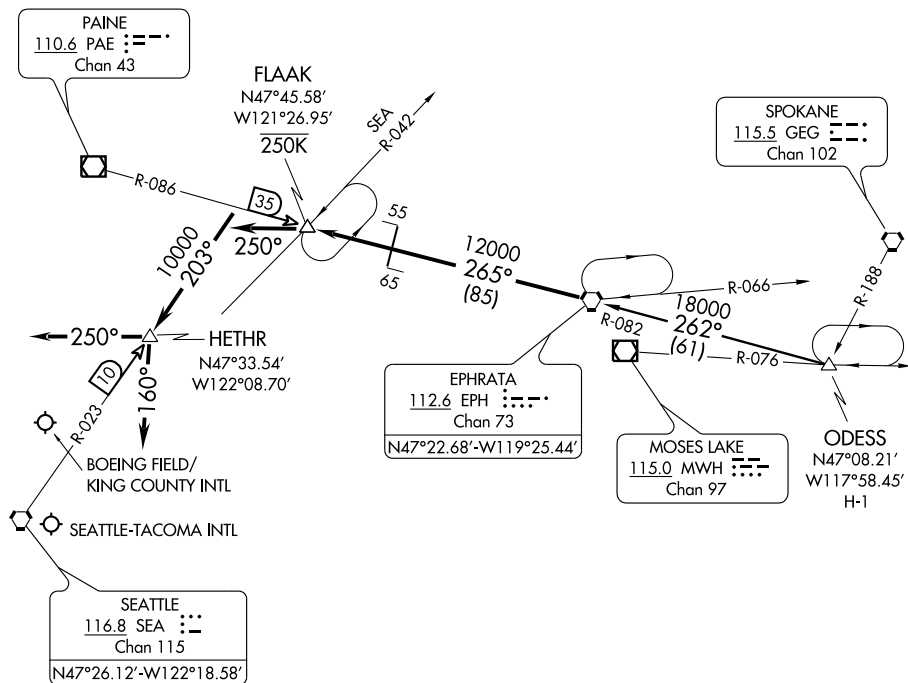
123.9 338.2

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75



NOTE: DME and RADAR required.

ODESS TRANSITION (ODESS.EPH6): From over ODESS INT via EPH R-082 to EPH VORTAC. Thence....

....From over EPH VORTAC via EPH R-265 and PAE R-086 to FLAAK INT. Then via heading 250° to intercept the SEA R-023, then via SEA R-023 to HETHR INT, thence....

LANDING NORTH: Heading 160° for vector to final approach course;

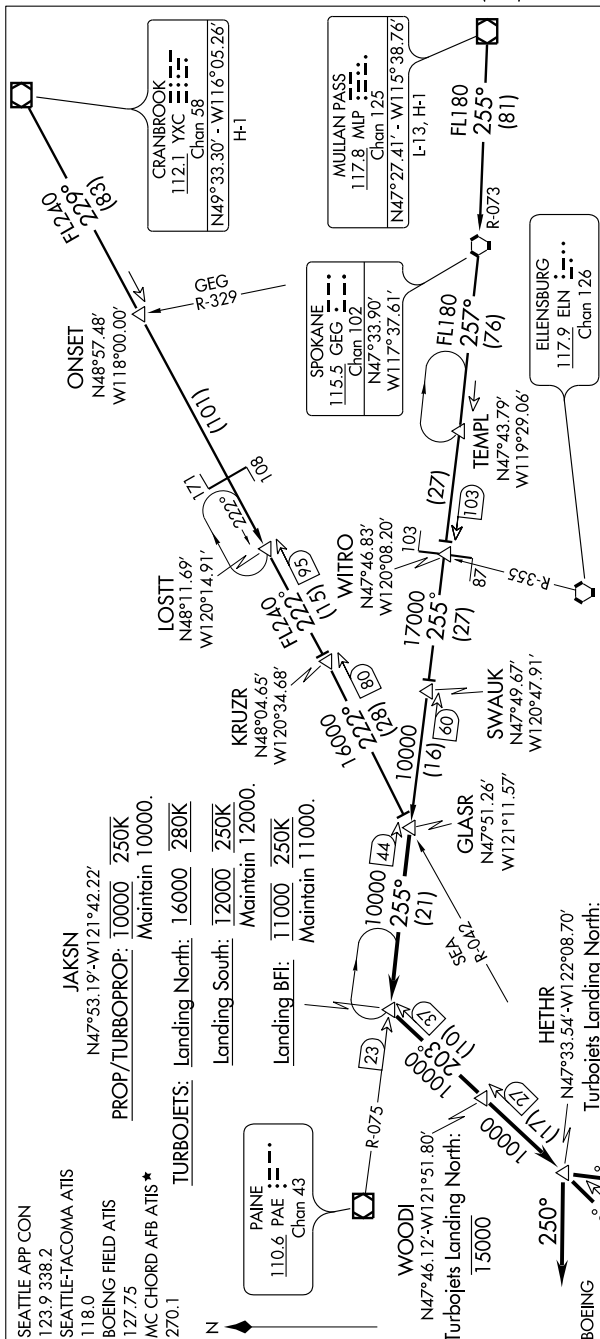
LANDING SOUTH: Heading 250° for vector to final approach course.

LOST COMMUNICATIONS: From over HETHR DME proceed direct SEA VORTAC.

GLASR SEVEN ARRIVAL

ST-582 (FAA)

SEATTLE, WASHINGTON



CRANBROOK TRANSITION (YXC.GLASR7): From over YXC VOR/DME via YXC R-229 and SEA R-042 to GLASR INT. Thence....

MULLAN PASS TRANSITION (MIP.GLASR7): From over MIP VOR/DME via MIP R-255 and GEG R-073 to GEG VORTAC, then via GEG R-257 and PAE R-075 to GLASR INT. Thence....

....from over GLASR/PAE 44 DME via PAE R-075 to JAKSN INT/PAE 23 DME, then via the SEA R-023 to WOODI/SEA 27 DME, then via SEA R-023 to HETHR/SEA 10 DME, Thence....

LANDING NORTH: Heading 160° for vectors to final approach course.

LANDING SOUTH: Heading 250° for vectors to final approach course.

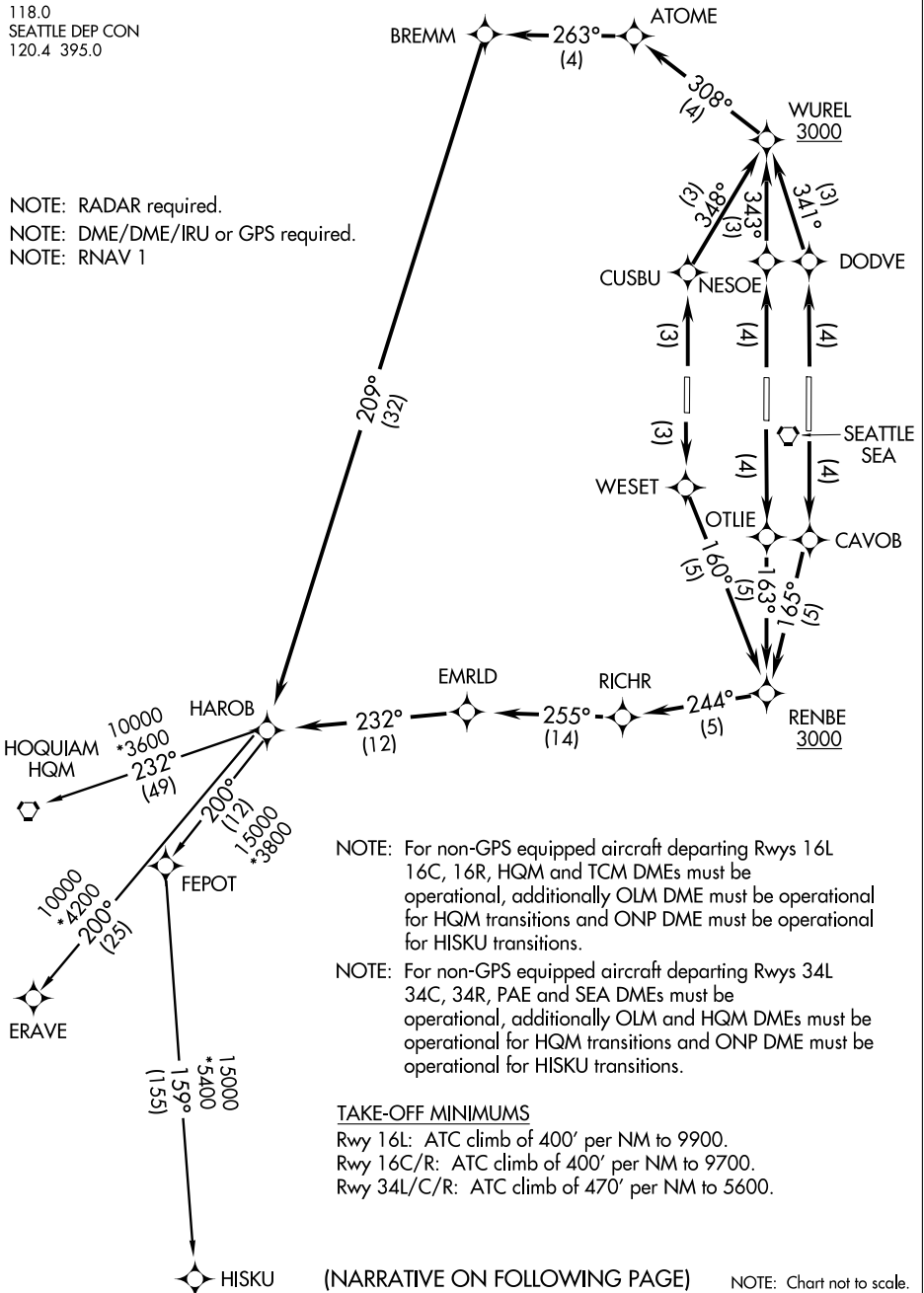
LANDING McCHORD AFB: From over HETHR DME FIX, proceed direct SEA VORTAC.

LOST COMMUNICATIONS: From over HETHR DME FIX, proceed direct SEA VORTAC.

HAROB THREE DEPARTURE (RNAV)

ATIS
118.0
SEATTLE DEP CON
120.4 395.0

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1



HAROB THREE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb direct CAVOB, then via 165° track to cross RENBE at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 16C: Climb direct OTLIE, then via 163° track to cross RENBE at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 16R: Climb direct WESET, then via 160° track to cross RENBE at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to HAROB, thence. . . .

. . . . via (transition). Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA VORTAC.

ERAVE TRANSITION (HAROB3.ERAVE)

FEPOT TRANSITION (HAROB3.FEPOT)

HISKU TRANSITION (HAROB3.HISKU)

HOQUIAM TRANSITION (HAROB3.HQM)

TAKE-OFF OBSTACLE NOTES

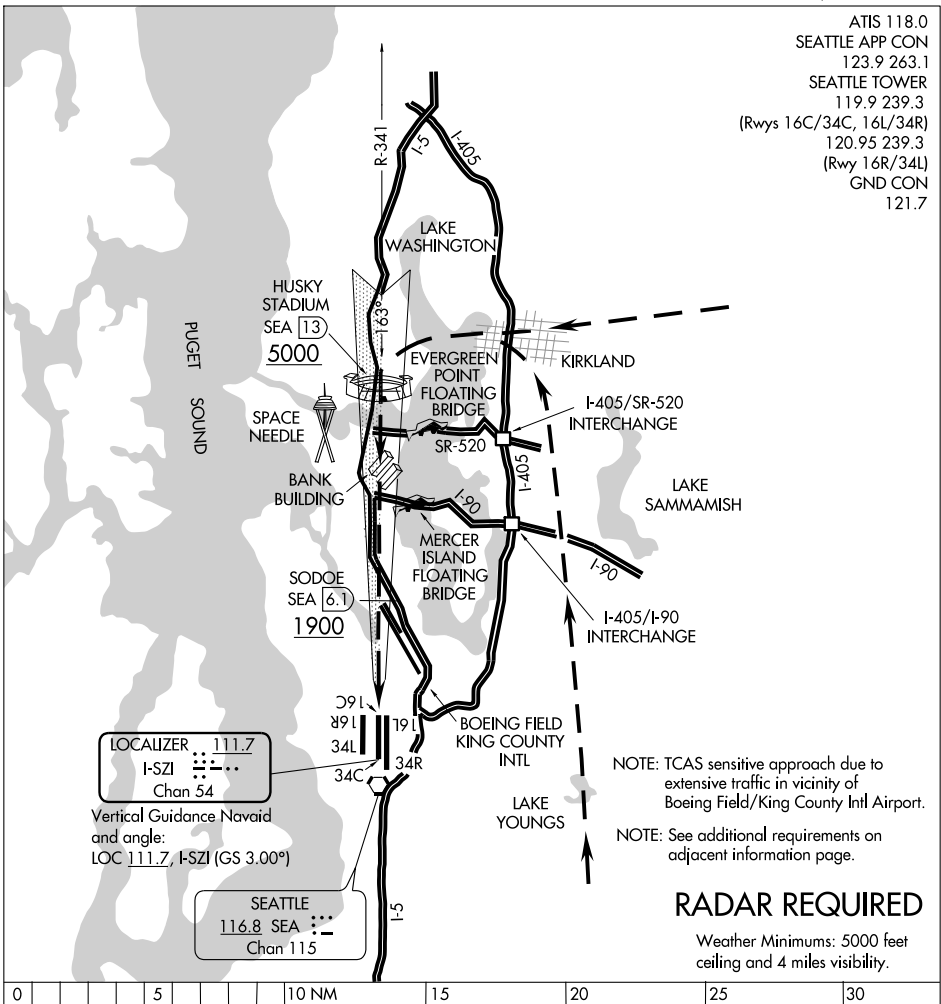
Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL.

Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.



HUSKY VISUAL APPROACH RWY 16C

When the ceiling is at least 5000' and visibility is at least 4 miles, aircraft may be vectored over Kirkland or Lake Youngs for a Husky Visual Runway 16C Approach. When cleared for a Husky Visual Approach; proceed inbound visually over Husky Stadium (via route depicted); intercept the Runway 16C localizer/SEA R-341 at 13 DME and complete a straight in visual approach to the airport.

SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

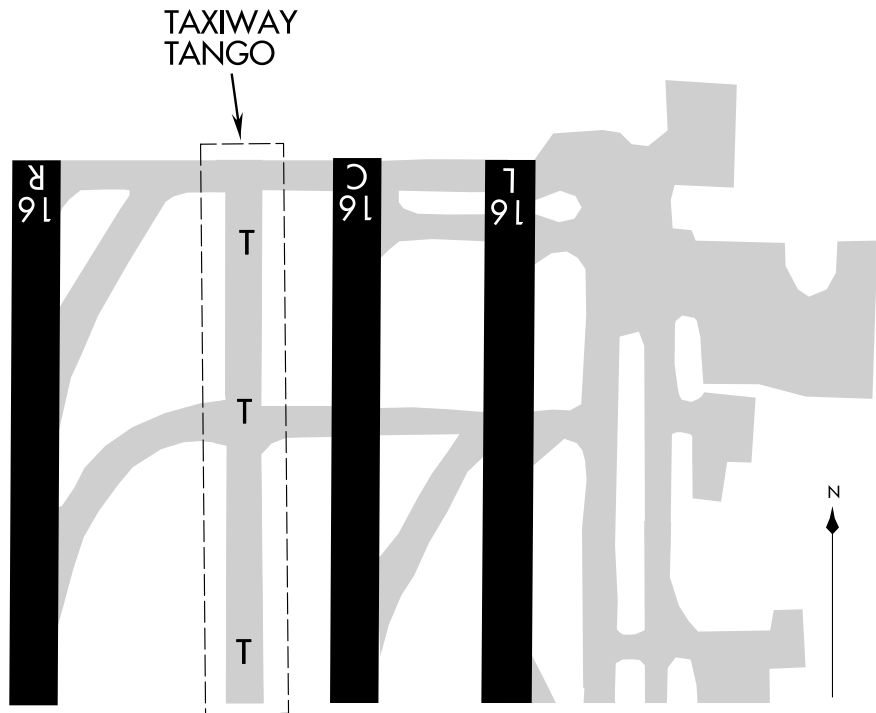
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify that you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended to track the localizer until the runway environment is visually verified.



LOC/DME 1-SZI 111.7 Chan 54	APP CRS 163°	Rwy 16C Idg 9426 TDZE 430 Apt Elev 433	Rwy 16L Idg 11901 TDZE 433 Apt Elev 433
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ILS or LOC RWY 16C
SEATTLE-TACOMA INTL (SEA)

T For inoperative ALSF-2, increase S-LOC 16C Cat D visibility to RVR 5000. Inoperative table does not apply to SIDESTEP 16L. DME or RADAR required. See additional requirements on adjacent information page.

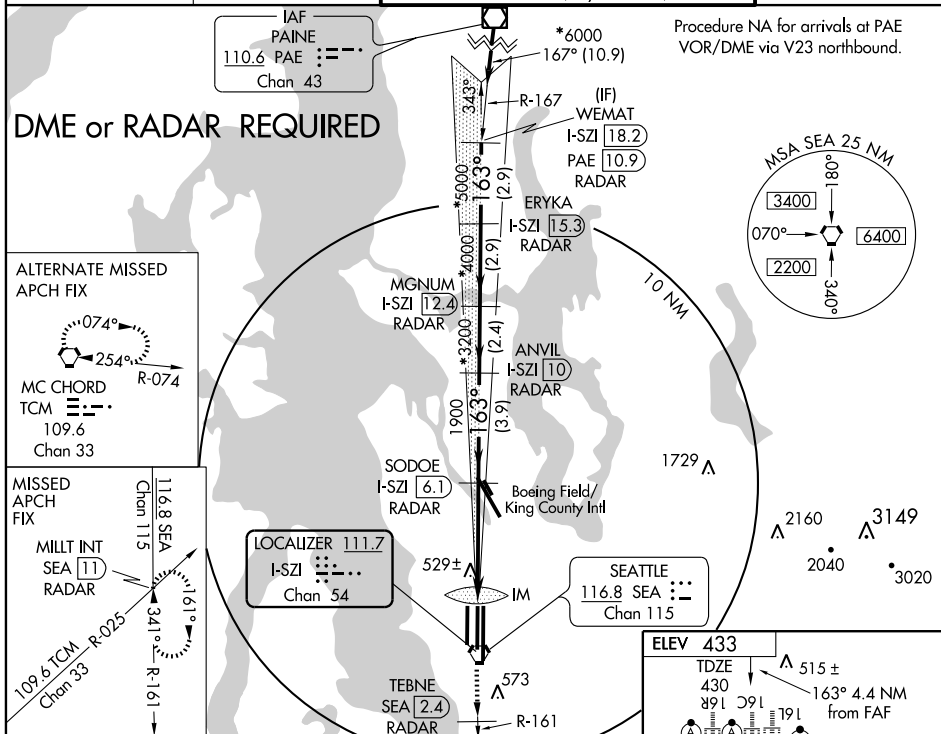
ALSF-2
Rwy 16C/L

MISSED APPROACH: Climb heading 160° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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DME or RADAR REQUIRED

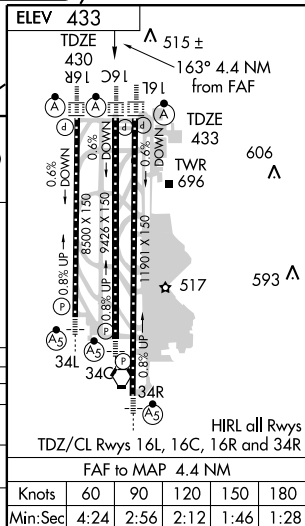
Procedure NA for arrivals at PAE
VOR/DME via V23 northbound.



* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.

Procedure	WEMAT I-SZI <u>18.2</u>	ERYKA I-SZI <u>15.3</u>	MGNUM I-SZI <u>12.4</u>	160° R-161 <u>116.8</u>	RADAR 2000	SEA R-161	SEA RADAR 11
Turn				ANVIL I-SZI <u>10</u>	SODOE I-SZI <u>6.1</u>	VGSI and ILS glidepath not coincident.	
NA	RADAR	RADAR	RADAR	RADAR	RADAR	I-SZI <u>2.5</u>	I-SZI <u>1.7</u>
	<u>*6000</u>	<u>*163°</u>	<u>*5000</u>	<u>*4000</u>	<u>*3200</u>	1900	IM
GS 3.00°						1900	
TCH 57'							

CATEGORY	2.9 NM	2.9 NM	2.4 NM	3.9 NM	3.6 NM	0.7	0.1
	A	B	C	D			
S-ILS 16C	630/18 200 (200-½)						
S-LOC 16C	760/24 330 (400-½)					760/40 330 (400-¾)	
SIDESTEP 16L	760/50 327 (400-1)			760-1½ 327 (400-1½)		760-2 327 (400-2)	
CIRCLING 16C	1000-1 567 (600-1)			1000-1½ 567 (600-1½)		1000-2 567 (600-2)	



SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

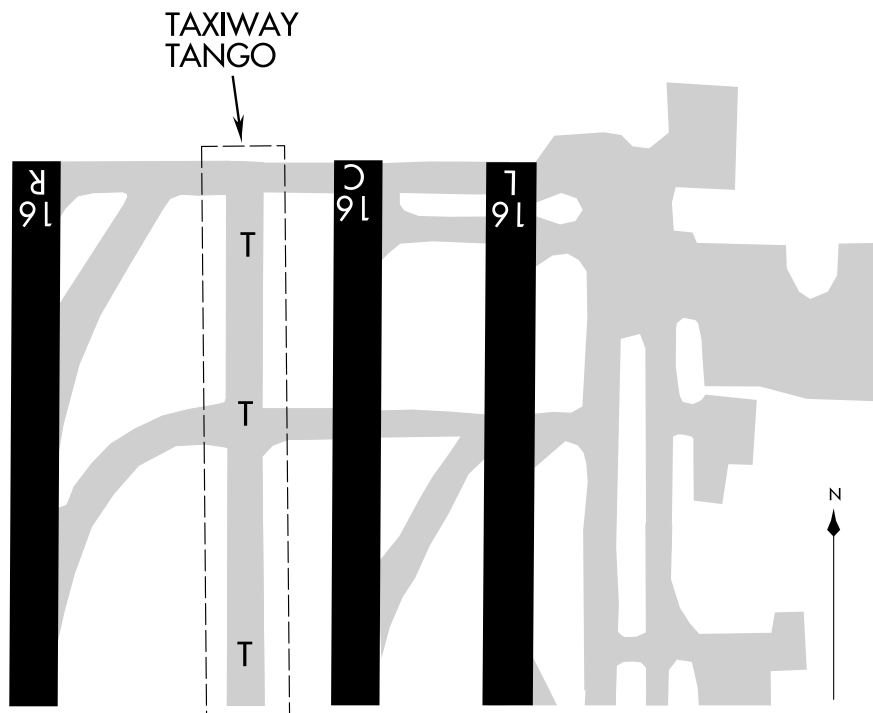
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended when executing a segment of the ILS approach for a visual transition, track the localizer until the runway environment is visually verified.

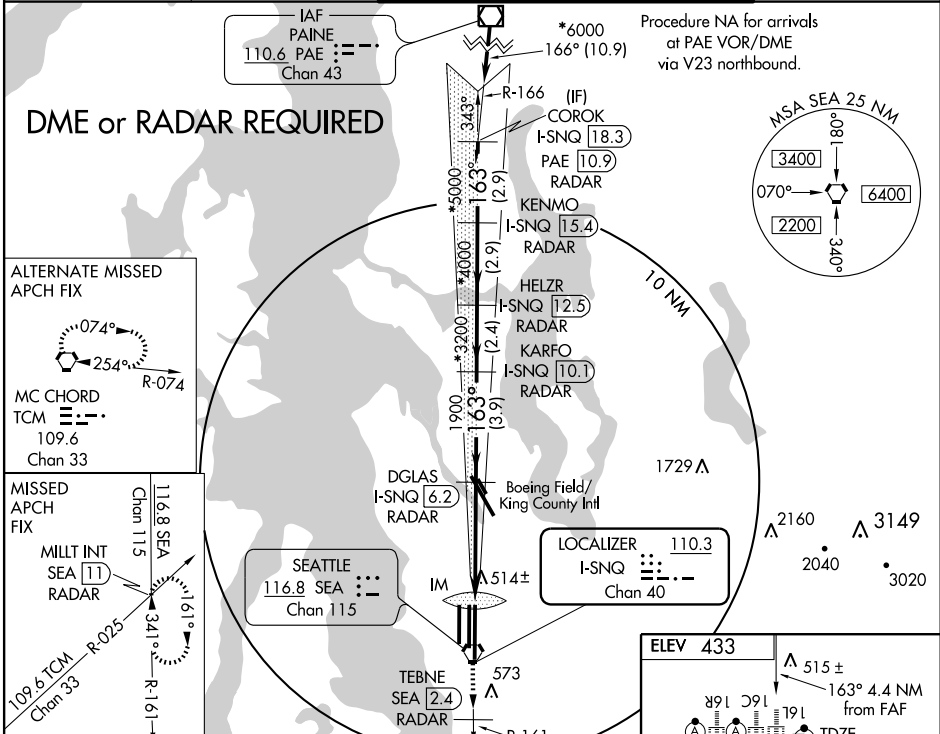


LOC/DME I-SNQ 110.3 Chan 40	APP CRS 163°	Rwy Idg 11901 TDZE 433 Apt Elev 433
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ILS or LOC RWY 16L
SEATTLE-TACOMA INTL (SEA)

V DME or RADAR required. For inoperative ALSF-2, increase S-ILS 16L Cat. A visibility to RVR 5000.		ALSF-2 	MISSED APPROACH: Climb heading 165° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/ SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.	
ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)		GND CON 121.7

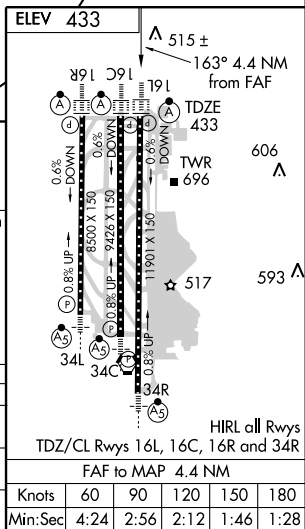
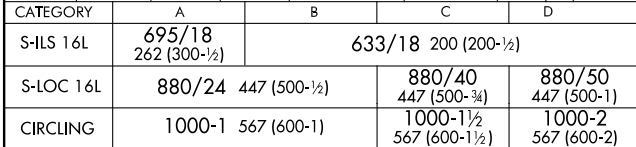
DME or RADAR REQUIRED



* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.

Diagram illustrating a flight path segment with various waypoints and altitudes:

- Waypoints and Altitudes:**
 - COROK I-SNQ 18.3 RADAR
 - KENMO I-SNQ 15.4 RADAR
 - HELZR I-SNQ 12.5 RADAR
 - KARFO I-SNQ 10.1 RADAR
 - DGLAS I-SNQ 6.2 RADAR
 - VGSJ I-SNQ 2.9 RADAR
 - SEA R-161 I-SNQ 1.8 RADAR
- Altitudes:**
 - *6000
 - *163°
 - *5000
 - *4000
 - *3200
 - 1900
 - 160°
 - 1.8
- Distances (NM):**
 - 2.9 NM
 - 2.9 NM
 - 2.4 NM
 - 3.9 NM
 - 3.3 NM
 - 1.1 NM
 - 0.1 NM
- Other Labels:**
 - GS 3.00° TCH 54
 - Procedure Turn NA
 - IM
 - VGSJ and ILS glidepath not coincident.



For inoperative MALSR, increase SIDESTEP 34R Cats. A and B visibility to RVR 6000.

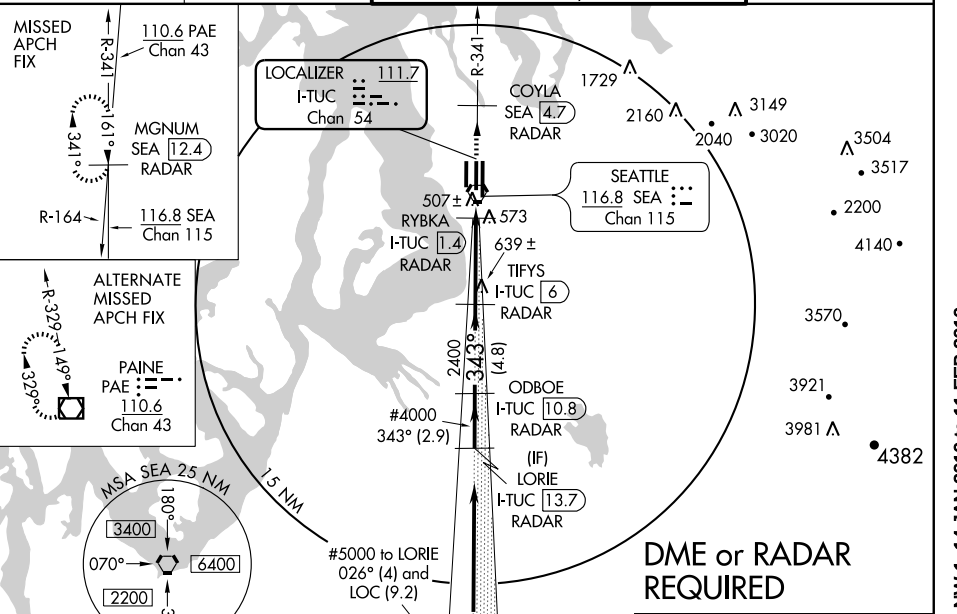
* RVR 1800 authorized with the use of FD or AP or HUD to DA.

DME or RADAR required.

MALSR
Rwy 34C/R

MISSED APPROACH: Climb heading 345° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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Procedure NA for arrivals at CIDUG via V495 southbound.

DME or RADAR REQUIRED

SEA R-341 116.8 2000	COYLA SEA 4.7 RADAR 2000	5000 SEA R-341 12.4 RADAR	MGNUM SEA 12.4 RADAR	# When assigned by ATC, intercept glidepath at 4000 or 5000.	LORIE I-TUC 13.7 RADAR	ODBOE I-TUC 10.8 RADAR	TIFYS I-TUC 6 RADAR	RYBKA I-TUC 1.4 RADAR	I-TUC 0.4	900 †	2400	343°	5000 #	4000 #	Procedure Turn NA GS 3.00° TCH 56
VGSI and ILS glidepath not coincident. † LOC only															
										0.5	1 NM	4.6 NM	4.8 NM	2.9 NM	
CATEGORY	A		B		C		D								
S-ILS 34C									* 587/24 200 (200-½)						
S-LOC 34C	760/24		373 (400-½)		760/60		373 (400-¾)		760/40 373 (400-¾)						
SIDESTEP 34R	760/50		388 (400-1)		760/60		388 (400-1 ¼)		760/134 388 (400-1 ¾)						
CIRCLING	1000-1		567 (600-1)		1000-1 ½		567 (600-1 ½)		1000-2 567 (600-2)						

ELEV 433

515 ±

606

696

517

593

343° 6.1 NM from FAF

HIRL all Rwys TDZ/CL Rwys 16L, 16C, 16R and 34R

FAF to MAP 5.6 NM

Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

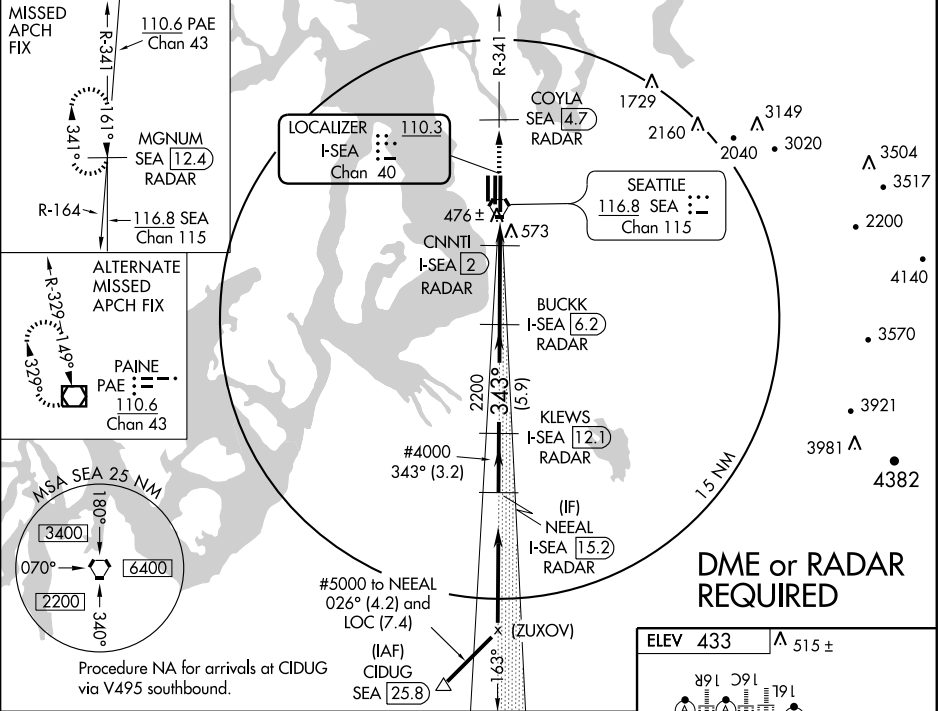
CATEGORY	A	B	C	D	343° 6.1 NM from FAF						
S-ILS 34L	* 579/24 200 (200-½)					HIRL all Rwys					
S-LOC 34L	760/24 381 (400-½)			760/40 381 (400-¾)		TDZ/CL Rwys 16L, 16C, 16R and 34R					
						FAF to MAP 6.1 NM					
CIRCLING	1000-1 567 (600-1)		1000-1½ 567 (600-1½)		1000-2 567 (600-2)	Knots	60	90	120	150	180
						Min:Sec	6:06	4:04	3:03	2:26	2:02

LOC/DME I-SEA 110.3 Chan 40	APP CRS 343°	Rwy 34R Idg TDZE Apt Elev 11901 372 433	Rwy 34C Idg TDZE Apt Elev 9426 387 433
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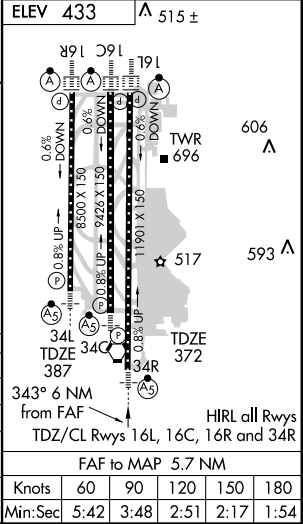
ILS or LOC RWY 34R
SEATTLE-TACOMA INTL (SEA)

✚ Inoperative table does not apply to SIDESTEP 34C, Cats. A and B. DME or RADAR required.	MALSR Rwy 34R/C 	MISSED APPROACH: Climb heading 341° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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↑ 341°	SEA R-341 116.8	COYLA SEA 4.7 RADAR 2000	5000 ↑ SEA R-341	MGNUM SEA 12.4 RADAR	Use I-SEA DME when on the localizer course. # When assigned by ATC, intercept glidepath at 4000 or 5000.
VGSI and ILS glidepath not coincident. *LOC only					BUCKK I-SEA 6.2 RADAR KLEWS I-SEA 12.1 RADAR NEEAL I-SEA 15.2 RADAR CNNTI I-SEA 2 RADAR I-SEA 1.2 I-SEA 0.6 900* 2200 4000# 5000# GS 2.75° TCH 60
CATEGORY	A	B	C	D	
S-ILS 34R		572/18	200 (200-½)		
S-LOC 34R		720/24	348 (300-½)		
SIDESTEP 34C		760/50	373 (400-1)	760-1½ 373 (400-1½)	
CIRCLING	1000-1	567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)	

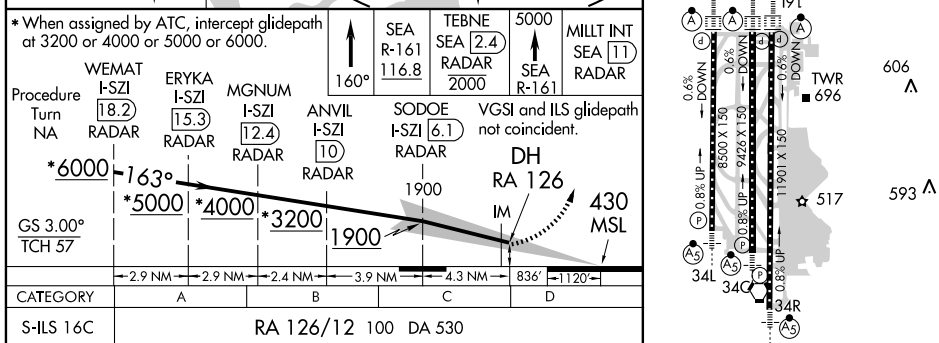
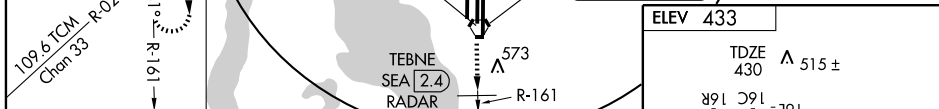
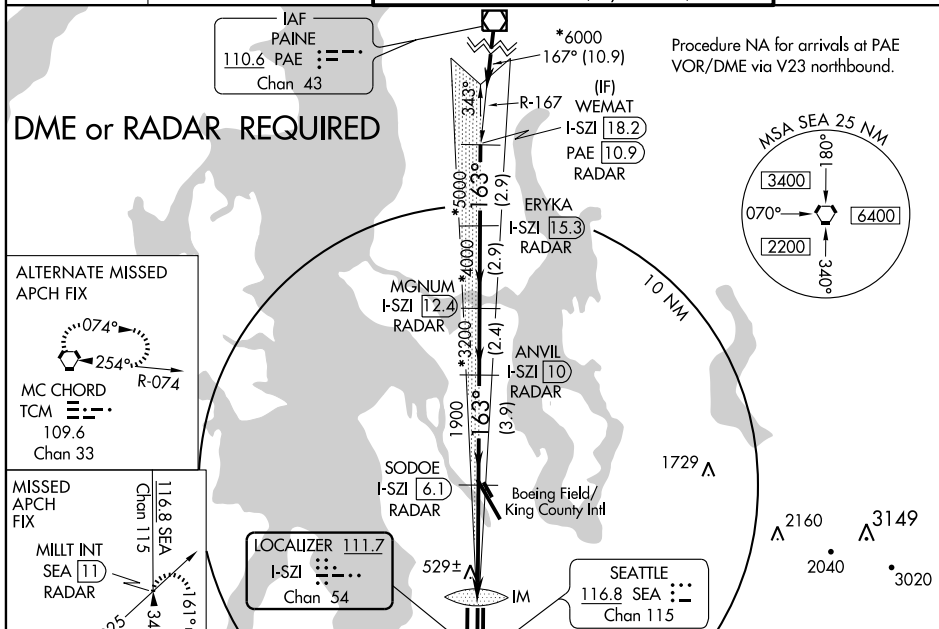


LOC/DME I-SZ 111.7 Chan 54	APP CRS 163°	Rwy Idg 9426 TDZE 430 Apt Elev 433
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ILS RWY 16C (CAT II)
SEATTLE-TACOMA INTL (SEA)

	DME or RADAR required.	ALSF-2 	MISSED APPROACH: Climb heading 160° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILIT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED	HIRL all Rwy's TDZ/CL Rwy's 16L, 16C, 16R and 34R
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LOC/DME I-SZI	APP CRS	Rwy Idg	9426
111.7	163°	TDZE	430
Chan 54		Apt Elev	433

ATIS

118.0

SEATTLE APP CON

133.65 273.45

SEATTLE TOWER

119.9 239.3 (Rwys 16C/34C, 16L/34R)

120.95 239.3 (Rwy 16R/34L)

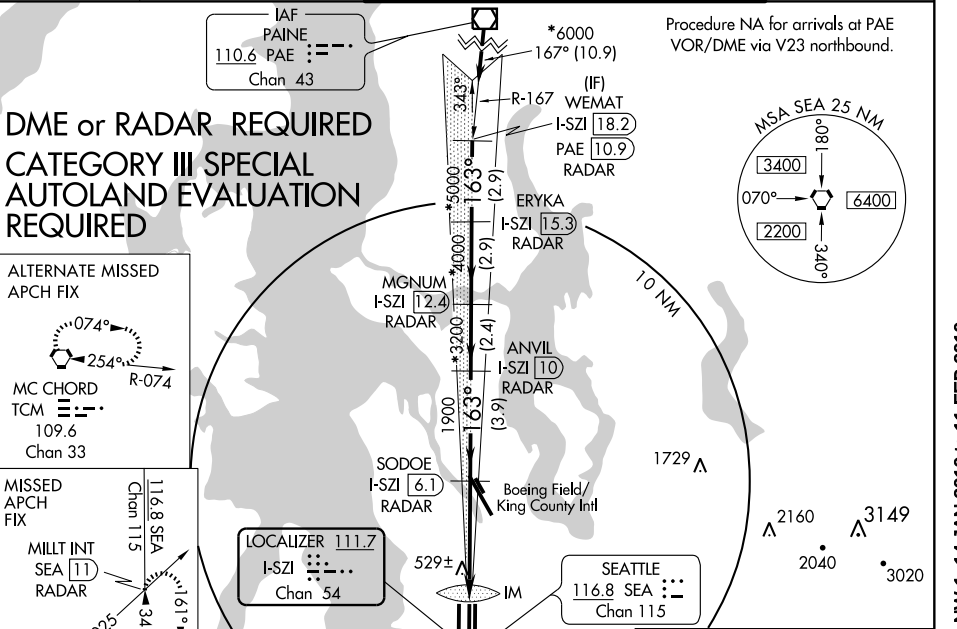
GND CON

121.7

ALSF-2

MISSED APPROACH: Climb heading 160° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS	SEATTLE APP CON	SEATTLE TOWER	GND CON
118.0	133.65 273.45	119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	121.7



When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.

WEMAT I-SZI 18.2 RADAR	ERYKA I-SZI 15.3 RADAR	MGNUM I-SZI 12.4 RADAR	ANVIL I-SZI 10 RADAR	SODOE I-SZI 6.1 RADAR	TEBNE SEA 2.4 RADAR	SEA R-161 116.8	MILT INT SEA 11 RADAR
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Procedure Turn NA

CATEGORY	A	B	C	D
S-ILS 16C		CAT IIIa	RVR 07	
S-ILS 16C		CAT IIIb	RVR 03	
S-ILS 16C		CAT IIIc	NA	

CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

HIRL all Rwys

TDZ/CL Rwys 16L, 16C, 16R and 34R

NW-1. 14 JAN 2010 to 11 FEB 2010

LOC/DME I-SNQ 110.3 Chan 40	APP CRS 163°	Rwy Idg 11901 TDZE 433 Apt Elev 433
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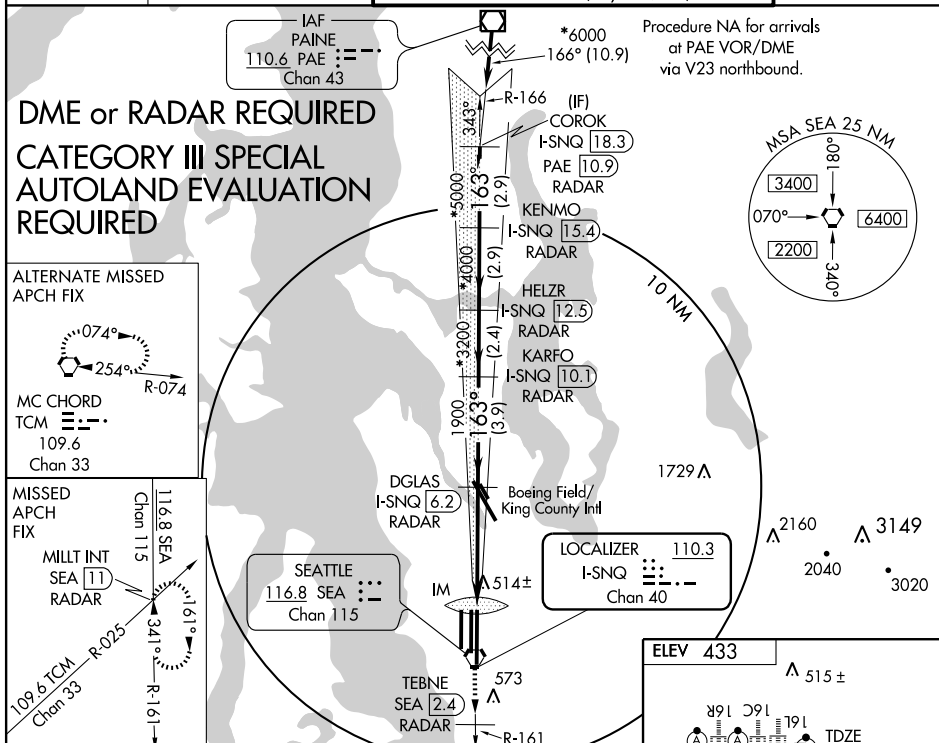
ILS RWY 16L (CAT III)

SEATTLE-TACOMA INTL (SEA)

		DME or RADAR required.	ALSF-2 	MISSED APPROACH: Climb heading 165° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILIT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.
ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)		GND CON 121.7

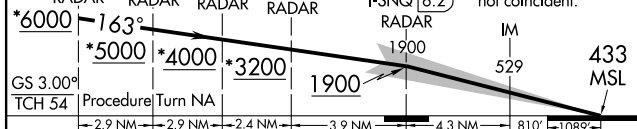
DME or RADAR REQUIRED
CATEGORY III SPECIAL
AUTOLAND EVALUATION
REQUIRED

Procedure NA for arrivals
at PAE VOR/DME
via V23 northbound.



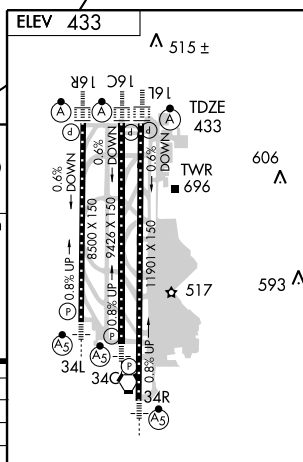
* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.

CORK I-SNQ 18.3 RADAR
 KENMO I-SNQ 15.4 RADAR
 HELZR I-SNQ 12.5 RADAR
 KARFO I-SNQ 10.1 RADAR
 165° DGLAS I-SNQ 6.2
 SEA 2.4 RADAR 2000
 SEA 11 RADAR
 VGS1 and ILS glidepath not coincident.



CATEGORY	A	B	C	D
S-ILS 16L	NA	CAT IIIa	RVR 07	
S-ILS 16L	NA	CAT IIIb	RVR 03	
S-ILS 16L		CAT IIIc	NA	

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED



HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

LOC/DME I-CJL 110.75 Chan 44 (Y)	APP CRS 163°	Rwy Idg TDZE Apt Elev	8500 415 433
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ILS RWY 16R (CAT III)
SEATTLE-TACOMA INTL (SEA)

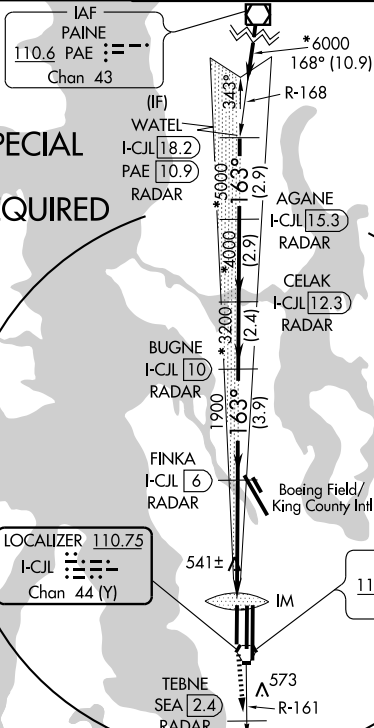
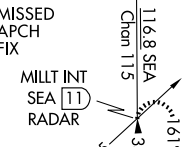
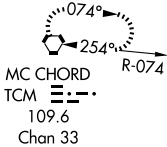
DME or RADAR required.		ALSF-2 	MISSED APPROACH: Climb heading 158° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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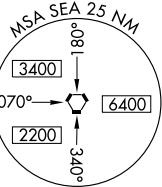
DME or RADAR
REQUIRED

CATEGORY III SPECIAL
AUTOLAND
EVALUATION REQUIRED

ALTERNATE MISSED
APCH FIX

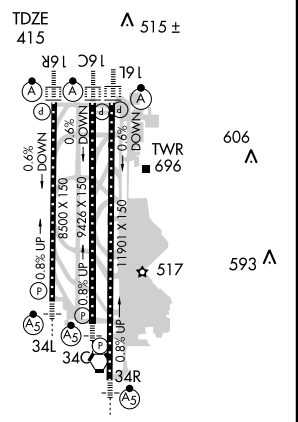
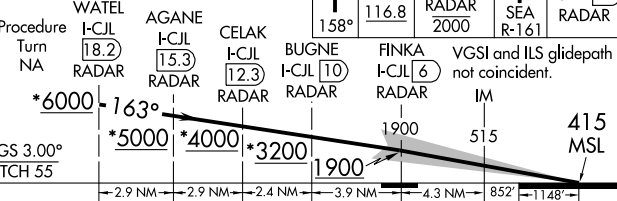


Procedure NA for arrivals
at PAE VOR/DME
via V23 northbound.



ELEV 433

* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.



CATEGORY	A	B	C	D
S-ILS 16R		CAT IIIa	RVR 07	
S-ILS 16R		CAT IIIb	RVR 06	
S-ILS 16R		CAT IIIc	NA	

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

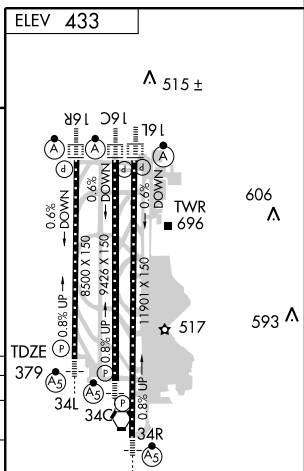
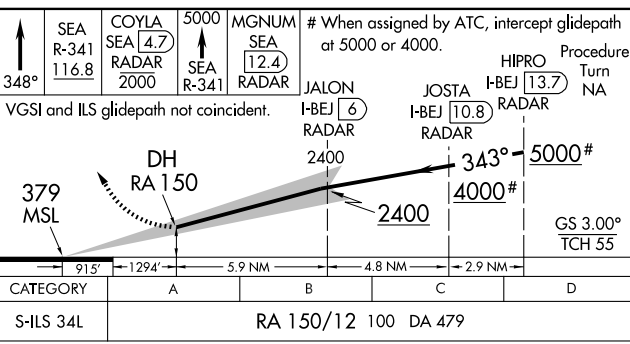
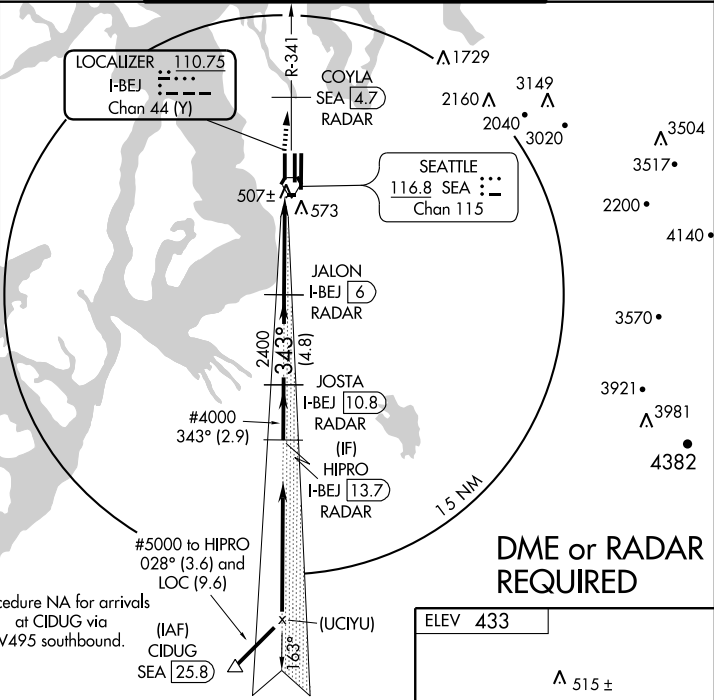
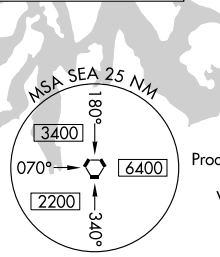
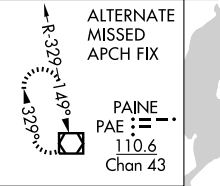
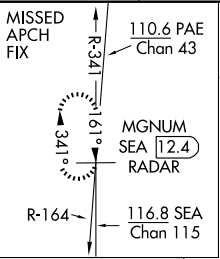
LOC/DME I-BEJ 110.75 Chan 44 (Y)	APP CRS 343°	Rwy Idg TDZE Apt Elev	8500 379 433
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DME or RADAR required.
Procedure does not meet ICAO standard for ALSF/TDZ/CL lighting systems. Authorization to conduct this approach requires specific OPSSEC approval or LOA for this Rwy.



MISSED APPROACH: Climb heading 348° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/ RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

NW-1. 14 JAN 2010 to 11 FEB 2010

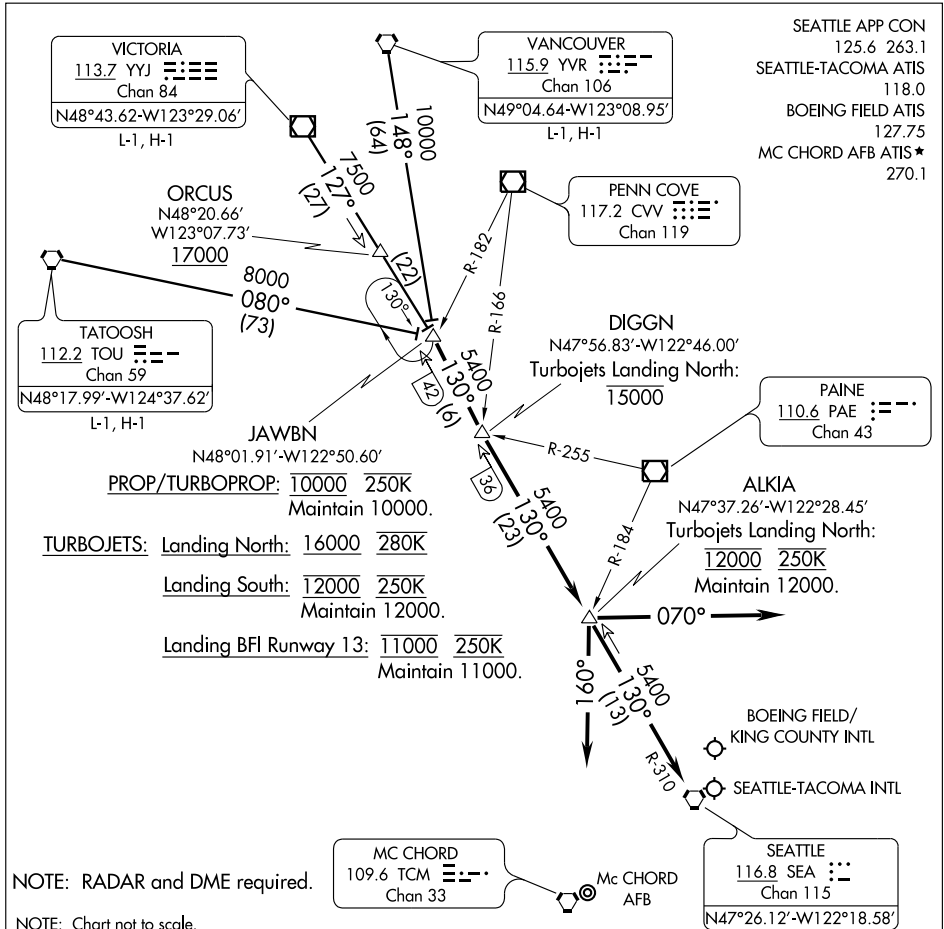
MISSED APPROACH: Climb heading 341° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.

DME or RADAR
REQUIRED

Diagram of the TWR 696 tower structure. The diagram shows two vertical legs with various levels and elevations. The left leg has levels 34L, 34Q, 34R, and 34S. The right leg has levels 34L, 34Q, 34R, and 34S. Elevations are given for several levels: 515±, 517, 593, 606, and 696. Wind speed indicators are shown: 0.6% DOWN, 0.8% UP, and 0.6% DOWN. A star symbol is located near the 517 elevation. A TDZE of 372 is indicated at the bottom right.

CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED.

HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R



TATOOSH TRANSITION (TOU.JAWBN1): From over TOU VORTAC via TOU R-080 to JAWBN INT. Thence....

VANCOUVER TRANSITION (YVR.JAWBN1): From over YVR VORTAC via YVR R-148 to JAWBN INT. Thence....

VICTORIA TRANSITION (YYJ.JAWBN1): From over YYJ VOR/DME via YYJ R-127 to JAWBN INT. Thence....

....From over JAWBN INT/SEA 42 DME via SEA R-310 to DIGGN/SEA 36 DME then via SEA R-310 to ALKIA INT/SEA 13 DME, thence....

LANDING NORTH: Depart ALKIA INT heading 160° for vectors to final approach course.

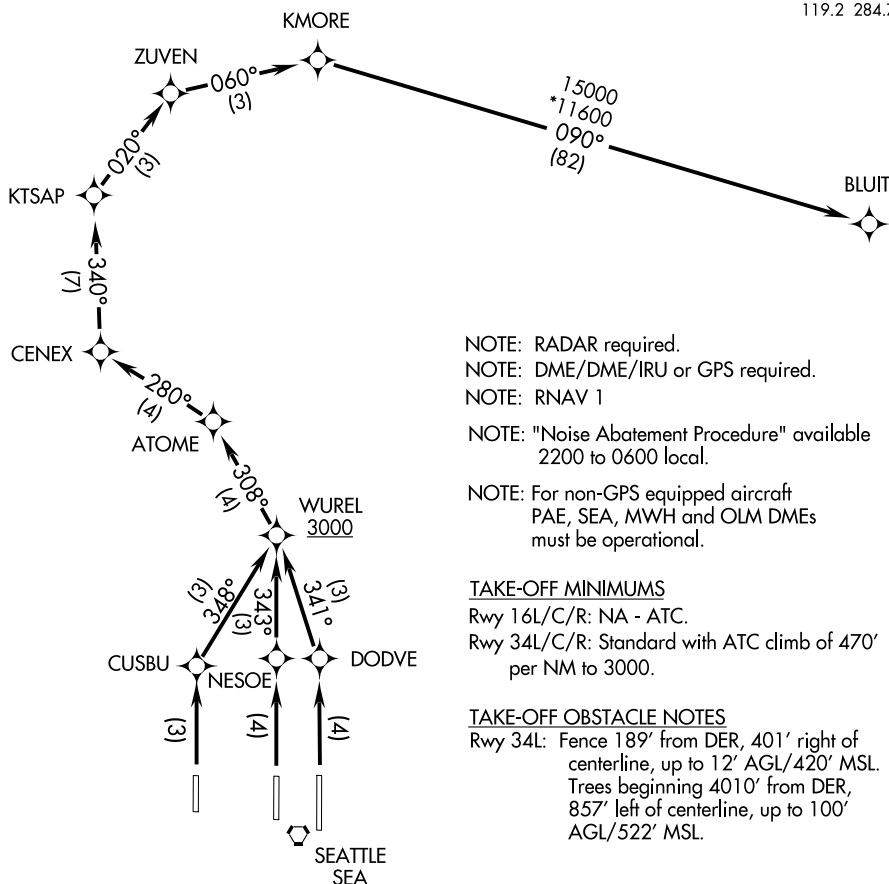
LANDING SOUTH: Depart ALKIA INT heading 070° for vectors to final approach course.

LANDING McCHORD AFB: After ALKIA INT proceed direct SEA VORTAC.

LOST COMMUNICATIONS: After ALKIA INT proceed direct SEA VORTAC.

KMORE TWO DEPARTURE (RNAV)

ATIS
118.0
SEATTLE DEP CON
119.2 284.7



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1

NOTE: "Noise Abatement Procedure" available
2200 to 0600 local.

NOTE: For non-GPS equipped aircraft
PAE, SEA, MWH and OLM DMEs
must be operational.

TAKE-OFF MINIMUMS

Rwy 16L/C/R: NA - ATC.

Rwy 34L/C/R: Standard with ATC climb of 470'
per NM to 3000.

TAKE-OFF OBSTACLE NOTES

Rwy 34L: Fence 189' from DER, 401' right of
centerline, up to 12' AGL/420' MSL.
Trees beginning 4010' from DER,
857' left of centerline, up to 100'
AGL/522' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL
at or above 3000, then via depicted route to BLUIT, thence. . .

TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL
at or above 3000, then via depicted route to BLUIT, thence. . .

TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL
at or above 3000, then via depicted route to BLUIT, thence. . .

. . . via assigned route. Maintain assigned altitude, expect filed altitude/flight level 15 NM
from SEA VORTAC.

KTSAP THREE DEPARTURE (RNAV)

ATIS

118.0

SEATTLE DEP CON

119.2 284.7

TATOOSH
TOU15000
*9400
274°
(93)

KTSAP

340°
(7)

CENEX

280°
(4)

ATOME

WUREL
3000308°
(4)

CUSBU

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TAKE-OFF MINIMUMS

Rwy 16L/C/R: NA - ATC.

Rwy 34L/C/R: Standard with ATC climb of
470' per NM to 3000.

TAKE-OFF OBSTACLE NOTES

Rwy 34L: Fence 189' from DER, 401' right of centerline,
up to 12' AGL/420' MSL. Trees beginning
4010' from DER, 857' left of centerline, up to
100' AGL/522' MSL.

NOTE: Chart not to scale.

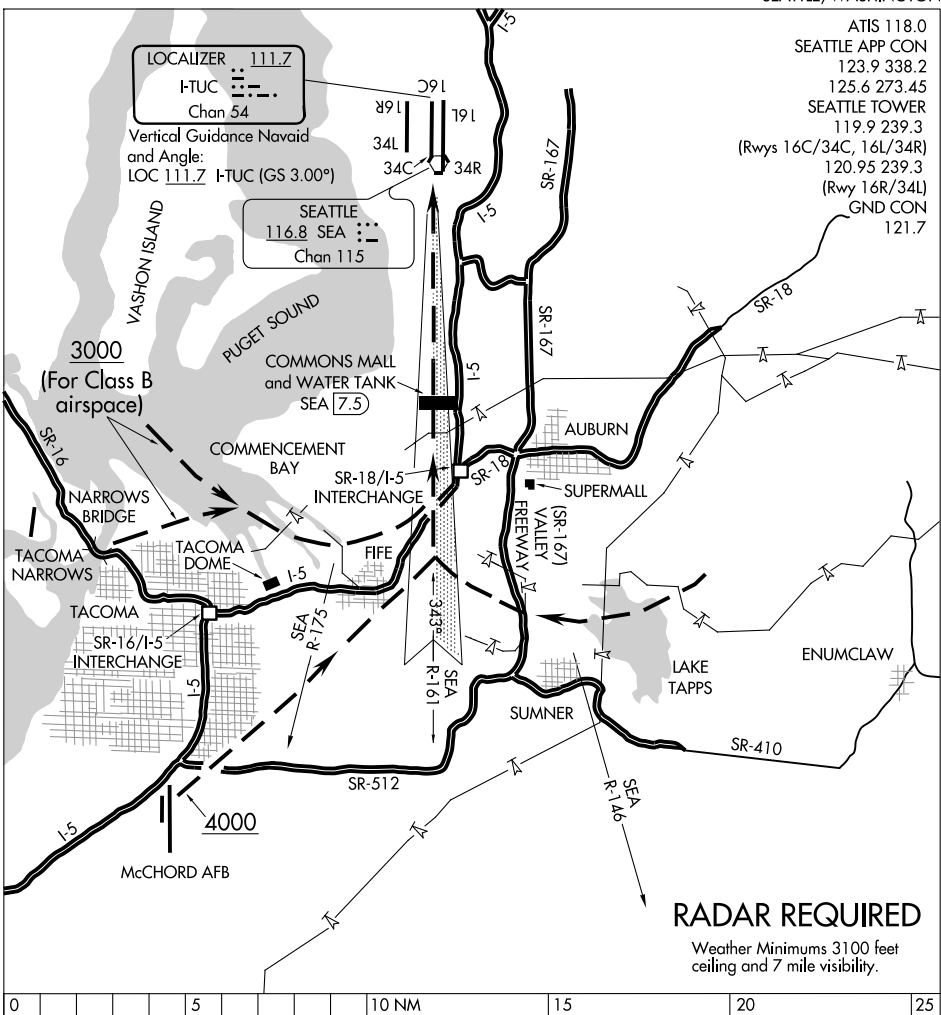
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL
at or above 3000, then via depicted route to TOU VORTAC, thence. . .TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL
at or above 3000, then via depicted route to TOU VORTAC, thence. . .TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL
at or above 3000, then via depicted route to TOU VORTAC, thence. via assigned route. Maintain assigned altitude, expect filed altitude/flight level
15 NM from SEA VORTAC.

MALL VISUAL RWY 34C

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)
SEATTLE, WASHINGTON



MALL VISUAL APPROACH RWY 34C

When the ceiling is at least 3100' and visibility is at least 7 miles, aircraft may be vectored towards Commencement Bay or McChord AFB or Lake Tapps for a Mall Visual Runway 34C Approach. When cleared for this approach; proceed inbound visually using the depicted landmarks to the centerline of runway 34C as assigned. Turn final before or over the interchange of State Road 18 (SR-18) and Interstate 5. Be established on the localizer or runway centerline at the Commons Mall and Water Tank (7.5 DME) and proceed visually to runway 34C.

ATIS
118.0
SEATTLE DEP CON
119.2 284.7

VANCOUVER
115.9 YVR 
Chan 106
N49°04.64'
W123°08.95'
[-] [-]

PRINCETON
113.9 YDC 
Chan 86
N49°22.89'
W120°22.42'

CRANBROOK
112.1 YXC 
Chan 58
N49°33.30'
W116°05.27'
H-1

WHATCOM
113.0 HUH :::
Chan 77
N48°56.72'
W122°34.76'
[-] H[-]

PAINÉ
110.6 PAE : = - .
Chan 43
N47°55.19'
W122°16.67'
[-] [-]

SPOKANE
115.5 GEG $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
Chan 102
N47°33.90'
W117°37.61'
[1-13 H-1]

EPHRATA
112.6 EPH 
Chan 73
N47°22.68'
W119°25.44'
L-13, H-1

MULLAN PASS
117.8 MLP 
Chan 125
N47°27.41'
W115°38.76'
[-13 H-]

MOSES LAKE
115.0 MWH 
Chan 97
N47°12.65'
W119°19.01'
L-13, H-1

SEATTLE
116.8 SEA :
Chan 115
N47°26.12'
W122°18.58'
[-], [-]

ELLENSBURG
117.9 ELN 
Chan 126
N47°01.46'
W120°27.51'
[-13 H-]

YAKIMA
116.0 YKM $\Xi \Xi \Xi$
Chan 107
N46°34.22'
W120°26.68'
[-13 H-]

PASCO
108.4 PSC 
Chan 21
N46°15.78'
W119°06.94'
I-13

NEZUG
N47°34.13'
W122°18.58'
4000

NICHY
N47°21.13'
W122°18.58'
3000

NOTE: RADAR and DME required.

TAKE-OFF MINIMUMS

Rwys 16L/C/R, 34 L/C/R: Standard.

Rwy 16L: ATC climb of 560' per NM to 3000.

Rwy 16C: ATC climb of 515' per NM to 3000.

Rwy 16R: ATC climb of 500' per NM to 3000.

Rwys 34L/C/R: ATC climb of 580' per NM to 4000.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

NW-1 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb heading 164° and SEA R-161 to cross NICHY at or above 3000, then left turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAYS 16C/R: Climb heading 160° and SEA R-161 to cross NICHY at or above 3000, then left turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAY 34L: Climb heading 346° and SEA R-341 to cross NEZUG at or above 4000, then right turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAY 34C: Climb heading 343° and SEA R-341 to cross NEZUG at or above 4000, then right turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAY 34R: Climb heading 340° and SEA R-341 to cross NEZUG at or above 4000, then right turn heading 070° for radar vectors to assigned route, thence. . . .

. . . .Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA.

LOST COMMUNICATIONS: If no contact with ATC leaving 4000', proceed direct SEA VORTAC, then proceed on course.

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/468' MSL.

Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

SEATTLE APP CON

125.6 263.1

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75



BOEING FIELD/
KING COUNTY INTL

SEATTLE-TACOMA INTL

SEATTLE
116.8 SEA :
Chan 115
47°26.12'-W 122°18.58'

MC CHORD
109.6 TCM 
Chan 33

OLYMPIA
113.4 OLM 
Chan 81
N46°58.30'-W122°54.11'

PROP/TURBOPROP: 10000 250K
Maintain 10000.

TURBOJETS: Landing North: 12000 250K
Maintain 12000.

Landing South: 17000 280K

NEWBERG
117.4 UBG 
Chan 121

N45°21.19'-W122°58.69'

L-1, H-1

BATTLE GROUND
116.6 BTG ==
Chan 113 ==

N45°44.87'-W122°35.49'
L-1, H-1

L-1, H-1

NOTE: Chart not to scale.

NOTE: RADAR and DME required.

BATTLE GROUND TRANSITION (BTG.OLM6): From over BTG VORTAC via BTG R-329 and OLM R-151 to OLM VORTAC. Thence....

NEWBERG TRANSITION (UBG.OLM6): From over UBG VOR/DME via UBG R-341 and OLM R-163 to OLM VORTAC. Thence....

....From over OLM VORTAC via OLM R-022 to LACEE/OLM 6 DME, then via OLM R-022 to ARVAD INT/OLM 20 DME, then via OLM R-022 to FOURT INT/OLM 26 DME, thence...

LANDING NORTH: Depart FOUR INT/OLM 26 DME heading 070° for vectors to final approach course.

LANDING SOUTH: Depart FOURT INT/OLM 26 DME heading 340° for vectors to final approach course.

LOST COMMUNICATIONS: From over FOURT INT/OLM 26 DME, proceed direct SEA VORTAC.

WAAS CH 61010 W16B	APP CRS 163°	Rwy Idg 9426 TDZE 430 Apt Elev 433
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RNAV (GPS) RWY 16C

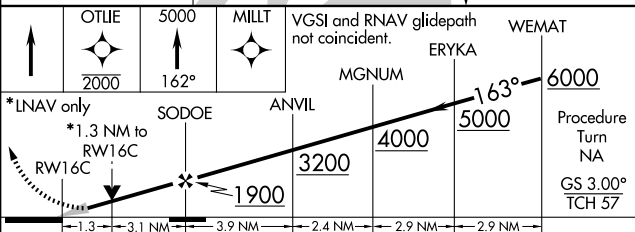
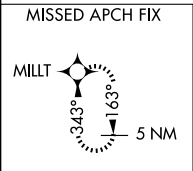
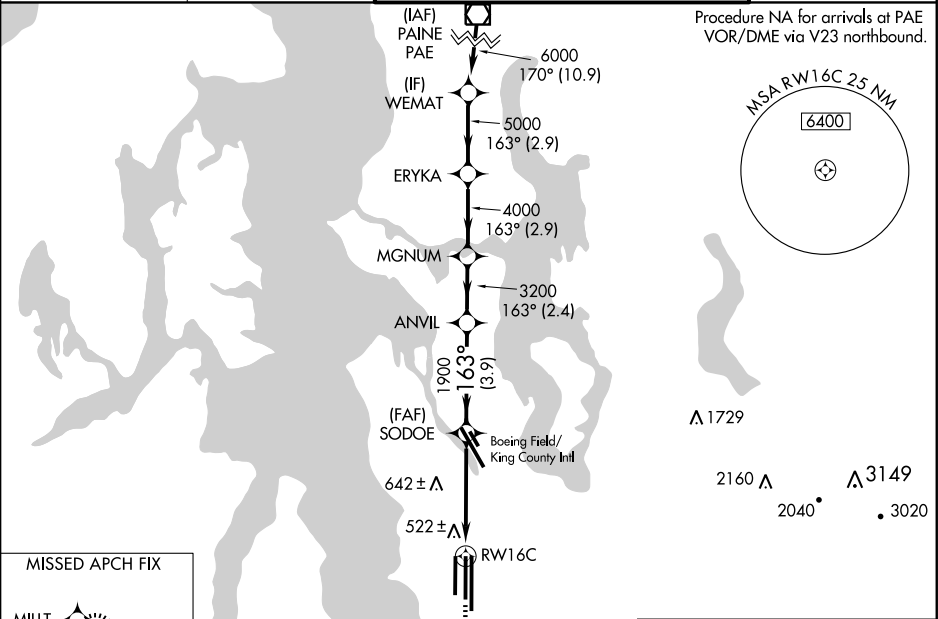
SEATTLE-TACOMA INTL (SEA)

▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 47°C (116°F).
DME/DME RNP-0.3 NA.
See additional requirements on adjacent information page.

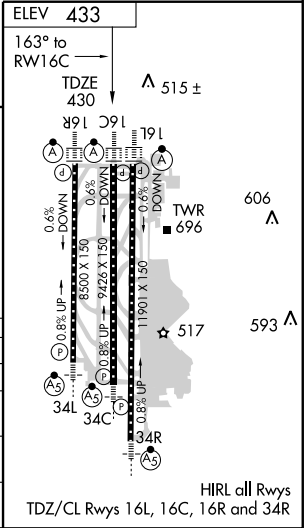
ALSF-2

MISSED APPROACH: Climb direct OTLIE to cross OTLIE at or below 2000, then climb to 5000 via track 162° to MILLT and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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CATEGORY	A	B	C	D
LPV DA		630/24	200 (200-1/2)	
LNAV/VNAV DA		811/40	381 (400-3/4)	
LNAV MDA	920/24	490 (500-1/2)	920/40 490 (500-3/4)	920/50 490 (500-1)
CIRCLING	1000-1	567 (600-1)	1000-1 1/2 567 (600-1 1/2)	1000-2 567 (600-2)



SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

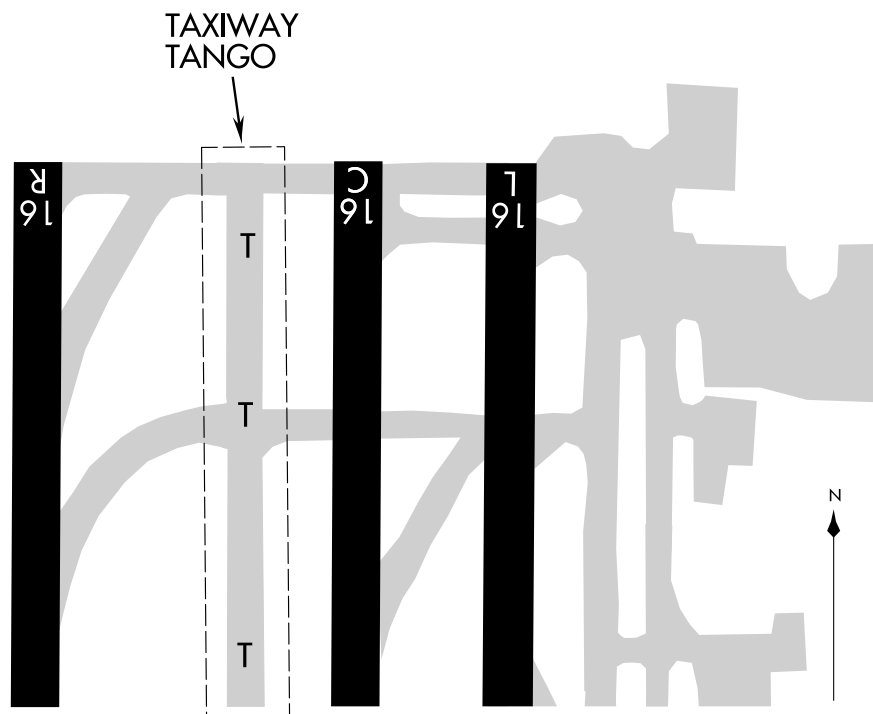
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended when executing a segment of the ILS approach for a visual transition, track the localizer until the runway environment is visually verified.



WAAS CH 63202 W16A	APP CRS 163°	Rwy Idg 11901 TDZE 433 Apt Elev 433
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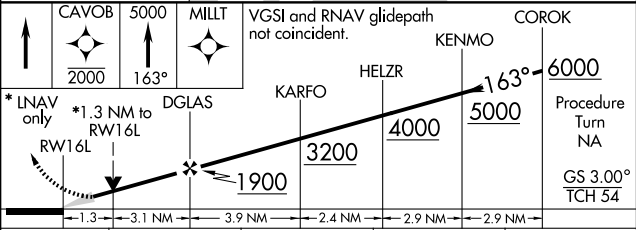
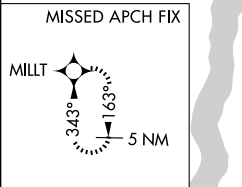
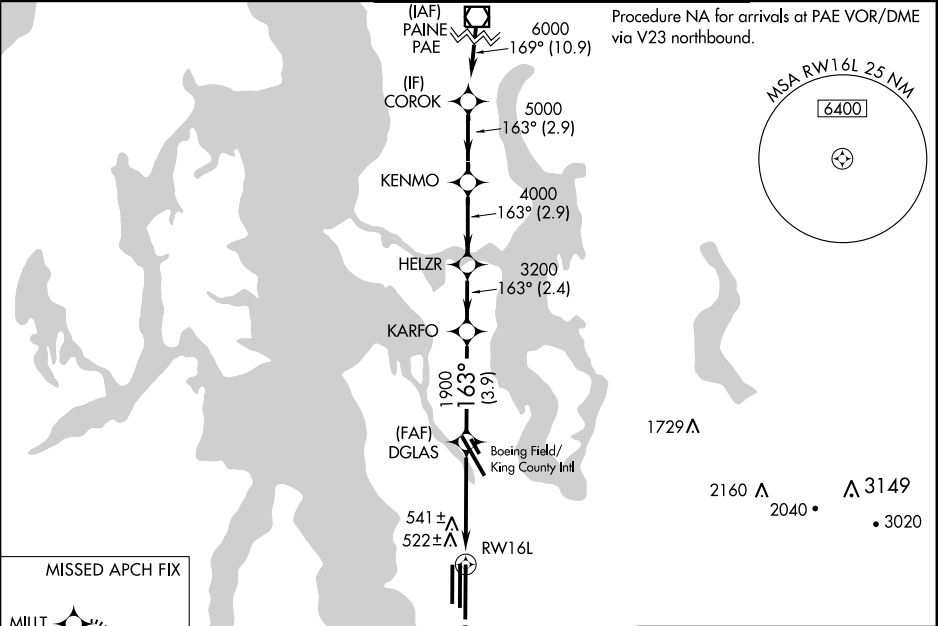
RNAV (GPS) RWY 16L

SEATTLE-TACOMA INTL (SEA)

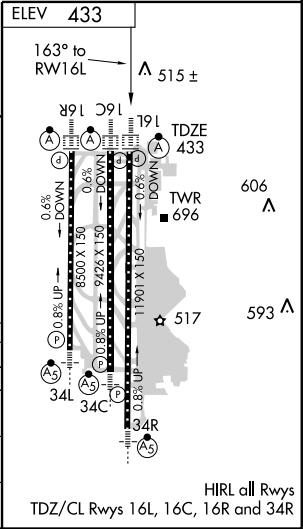
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 47°C (116°F).
DME/DME RNP -0.3 NA. For inoperative ALSF-2, increase LPV all Cats. visibility to RVR 5000.

ALSF-2
MISSED APPROACH: Climb direct CAVOB to cross CAVOB at or below 2000, then climb to 5000 via track 163° to MILLT and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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CATEGORY	A	B	C	D
LPV DA	729/24	296 (300-½)		
LNAV/VNAV DA	811/40	378 (400-¾)		
LNAV MDA	920/24	487 (500-½)	920/40 487 (500-¾)	920/50 487 (500-1)
CIRCLING	1000-1	567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)



WAAS CH 86910 W16D	APP CRS 163°	Rwy Idg 8500 TDZE 415 Apt Elev 433
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RNAV (GPS) RWY 16R

SEATTLE-TACOMA INTL (SEA)

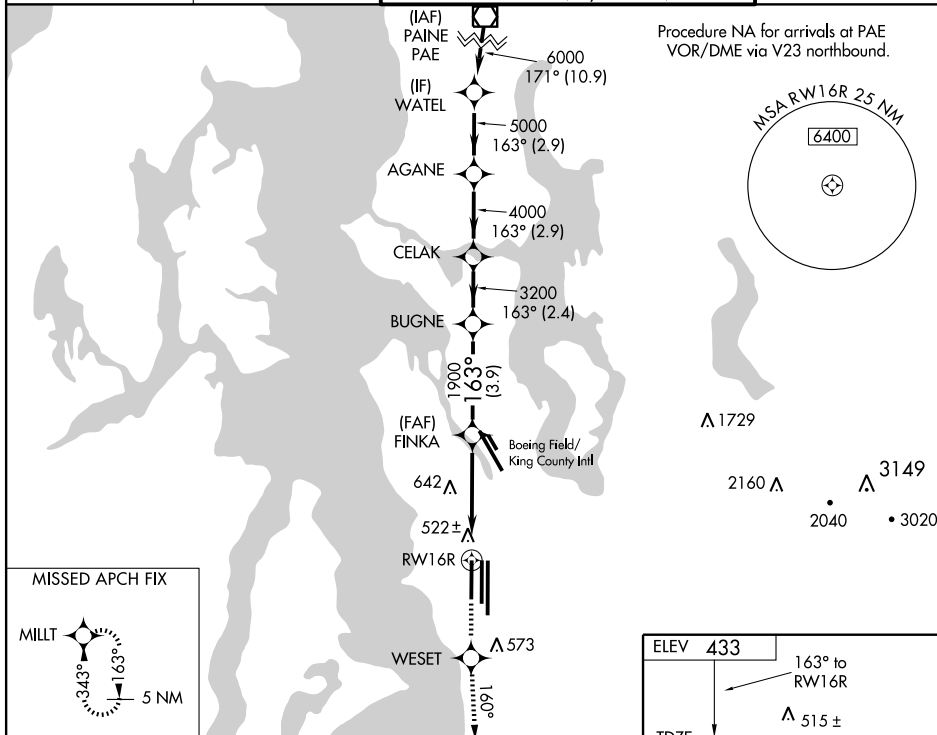
T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 47°C (116°F).
DME/DME RNP-0.3 NA.

ALSF-2

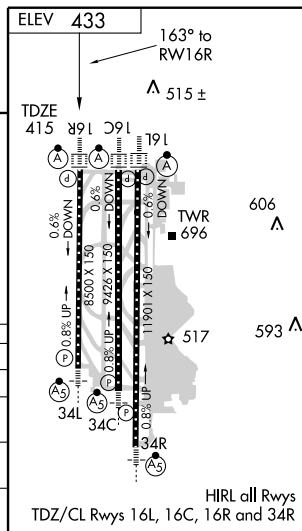


MISSED APPROACH: Climb direct WESET to cross WESET at or below 2000, then climb to 5000 via track 160° to MILT and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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		 WESSET		 5000		 MILT		VGSI and RNAV glidepath not coincident.		WATL	
		 2000		 160°				CELAK		AGANE	
*LNAV only		*1.4 NM to FINKA		FINKA		BUGNE		3200		4000	
 RW16R		 RW16R		 FINKA		 BUGNE		 3200		 4000	
 1.4		 3 NM		 3.9 NM		 2.4 NM		 2.9 NM		 2.9 NM	
CATEGORY		A		B		C		D			
LPV	DA	615/24		200 (200-½)							
LNAV/ VNAV	DA	808/40		393 (400-¾)							
LNAV	MDA	920/24		505 (500-½)		920/50		505 (500-1)			
CIRCLING		1000-1		567 (600-1)		1000-1½ 567 (600-1½)		1000-2 567 (600-2)			



WAAS CH 77710 W34B	APP CRS 343°	Rwy Idg TDZE 387 Apt Elev 433
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RNAV (GPS) RWY 34C

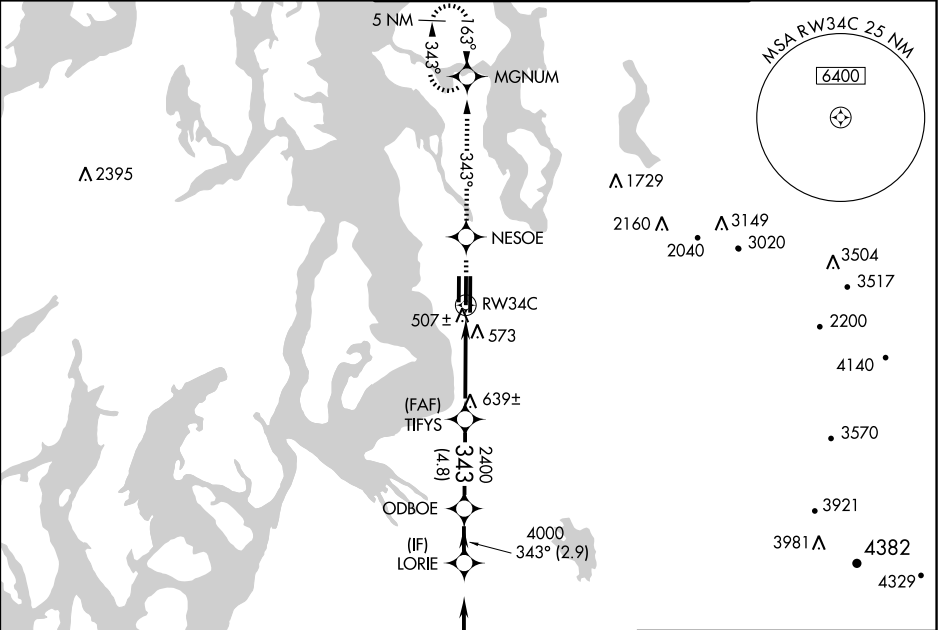
SEATTLE-TACOMA INTL (SEA)

▼ For inoperative MALS, increase LPV all Cats. visibility to RVR 6000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA.

MALS

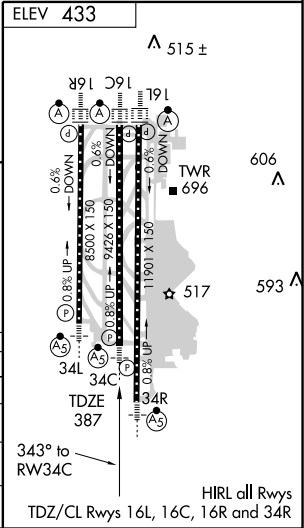
MISSED APPROACH: Climb direct NESOE to cross NESOE at or below 2000, then climb to 5000 via track 343° to MGNUM and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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Procedure NA for arrivals at CIDUG via V495 southbound.

	NESOE	5000	MGNUM	VGSI and RNAV glidepath not coincident.	LORIE	Procedure Turn NA
CATEGORY	A	B	C	D		
LPV DA	741/40	354 (400-¾)				
LNAV/VNAV DA	790/50	403 (400-1)				
LNAV MDA	900/24	513 (500-½)	900/50 513 (500-1)	900/60 513 (500-1¼)		
CIRCLING	1000-1	567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)		



WAAS CH 45810 W34D	APP CRS 343°	Rwy Idg 8500 TDZE 379 Apt Elev 433
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RNAV (GPS) RWY 34L

SEATTLE-TACOMA INTL (SEA)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP -0.3 NA.

MALSR

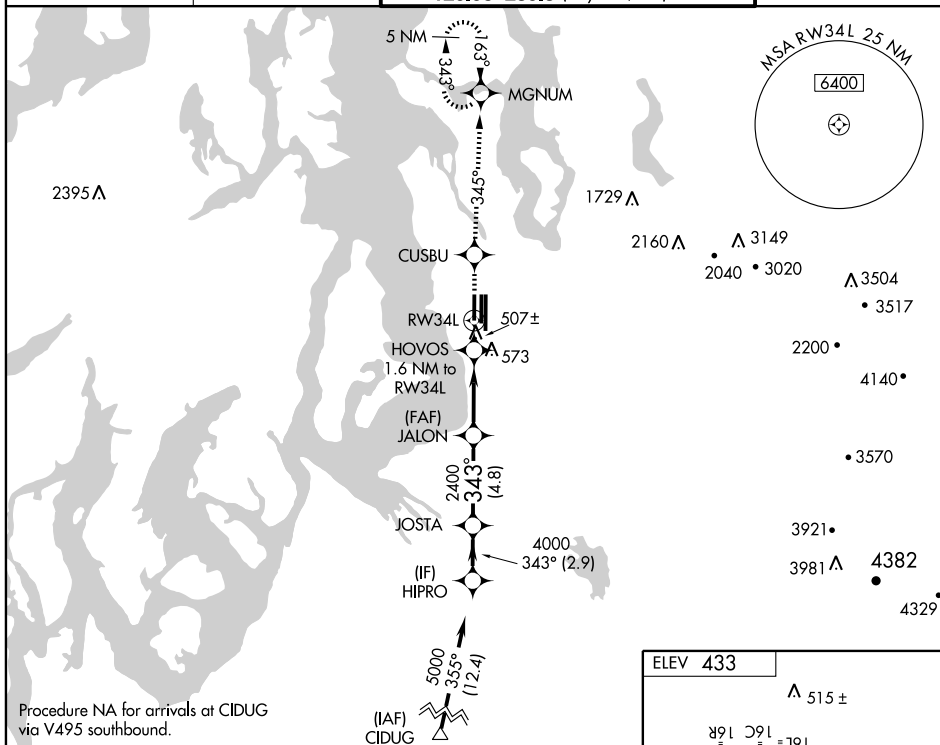
MISSED APPROACH: Climb direct CUSBU to cross CUSBU at or below 2000, then climb to 5000 via track 345° to MGNUM and hold, continue climb-in-hold to 5000.

ATIS
118.0

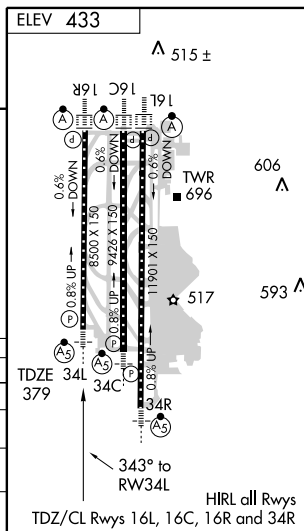
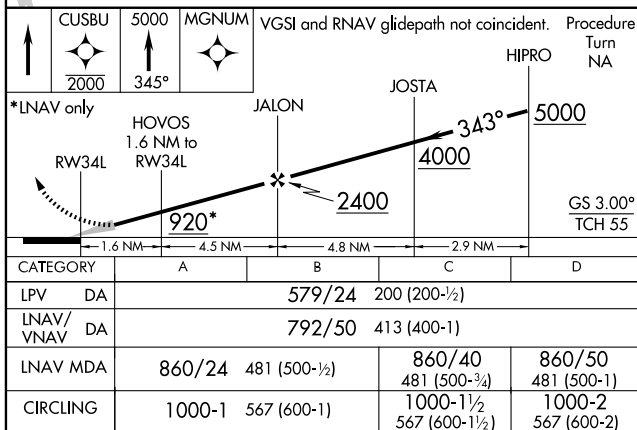
SEATTLE APP CON
133.65 273.45

SEATTLE TOWER
119.9 239.3 (Rwys 16C/34C, 16L/34R)
120.95 239.3 (Rwy 16R/34L)

GND CON
121.7



Procedure NA for arrivals at CIDUG
via V495 southbound.



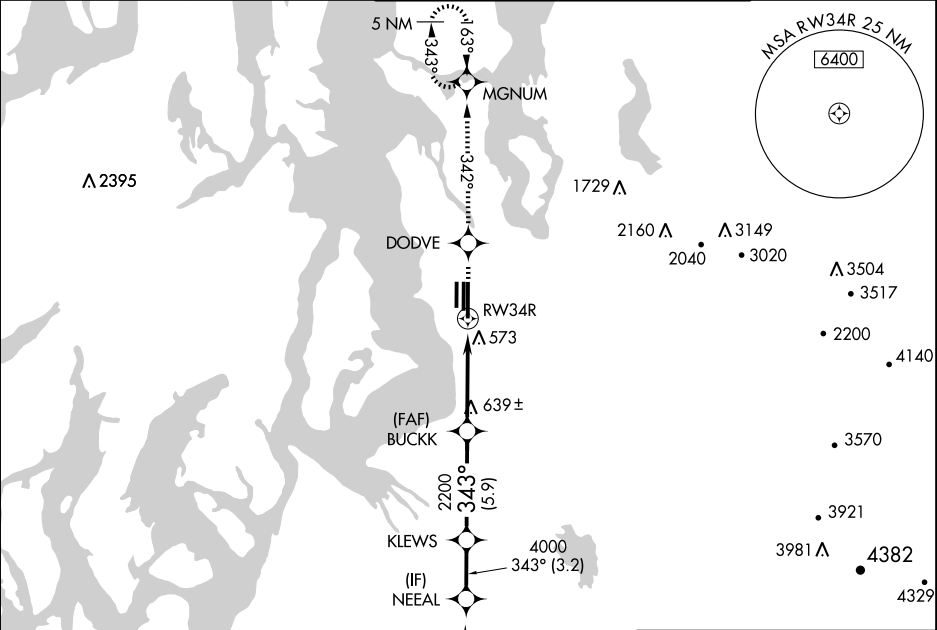
WAAS CH 42710 W34A	APP CRS 343°	Rwy Idg 11901 TDZE 372 Apt Elev 433
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RNAV (GPS) RWY 34R

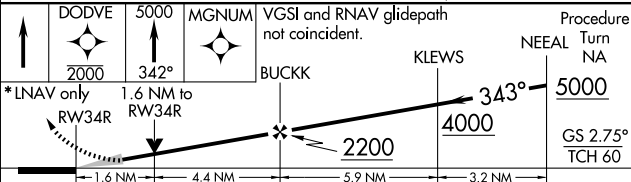
SEATTLE-TACOMA INTL (SEA)

▼ For inoperative MALS, increase LPV all Cats. visibility to RVR 5000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 54°C (130°F). DME/DME RNP -0.3 NA.	MALS 	MISSED APPROACH: Climb direct DODVE to cross DODVE at or below 2000, then climb to 5000 via track 342° to MGNUM and hold, continue climb-in-hold to 5000.
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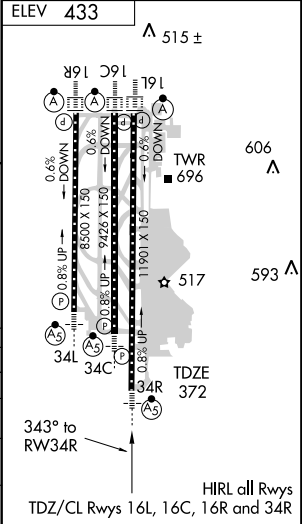
ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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Procedure NA for arrivals at CIDUG via V495 southbound.



CATEGORY	A	B	C	D
LPV DA	622/24		250 (200-½)	
LNAV/VNAV DA	869-1½		497 (500-1½)	
LNAV MDA	900/24		528 (500-½)	900/50 528 (500-1)
CIRCLING	1000-1		567 (600-1)	1000-2 567 (600-½)



SEATTLE, WASHINGTON

ATIS 118.0
SEATTLE APP CON

123.9	338.2
125.6	273.45
EATLE TOWER	
119.9	239.3
(34C, 16L/34R)	
120.95	239.3
(Rwy 16R/34L)	
GND CON	
121.7	



0					5					10 NM		15		20		25
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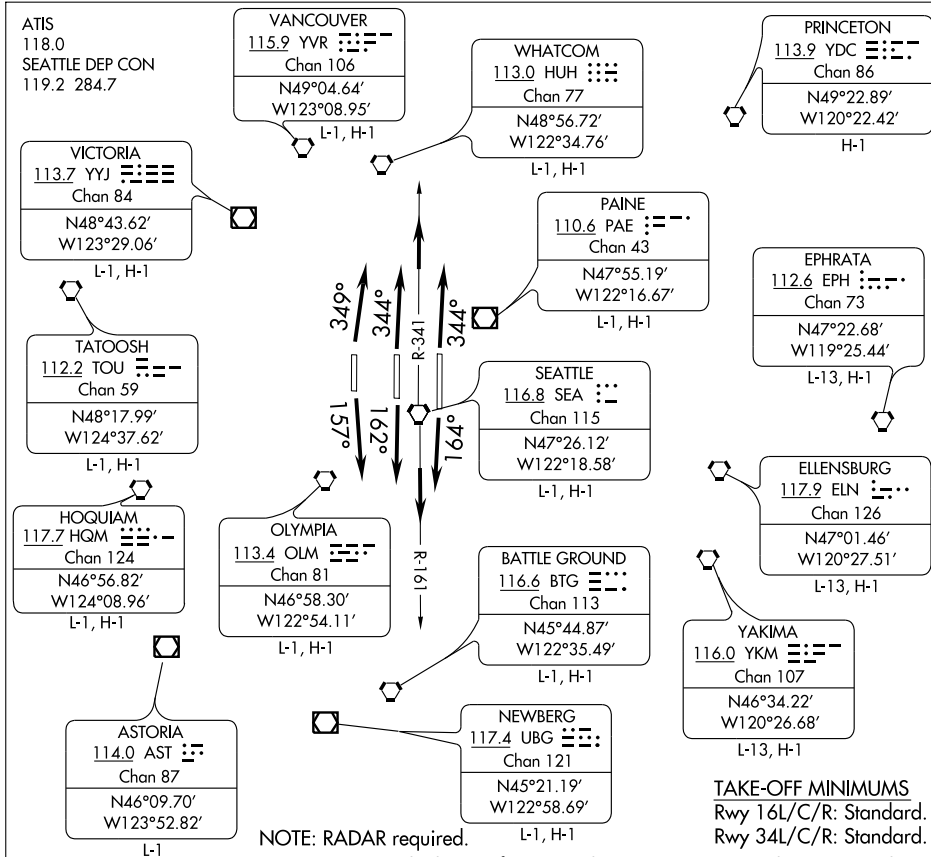
When the ceiling is at least 3100' and visibility is at least 7 miles, aircraft may be vectored towards Commencement Bay or McChord AFB or Lake Tapps for a Salty Visual Runway 34L Approach. When cleared for this approach; proceed inbound visually using the depicted landmarks to the centerline of runway 34L. Turn final before or over the interchange of State Road 18 (SR-18) and Interstate 5. Be established on the localizer or runway centerline at the Commons Mall and Water Tank (7.5 DME) and proceed visually to runway 34L.

SEATTLE FOUR DEPARTURE

SL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



NOTE: RADAR required.

NOTE: Between the hours of 2200 and 0600 local, large turbine powered aircraft departing runways 34L/C/R will be vectored over Puget Sound for noise abatement before proceeding on course.

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL.

Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb heading 349° and SEA R-341, thence. . .TAKE-OFF RUNWAY 34C/R: Climb heading 344° and SEA R-341, thence. . .TAKE-OFF RUNWAY 16L: Climb heading 164° and SEA R-161, thence. . .TAKE-OFF RUNWAY 16C: Climb heading 162° and SEA R-161, thence. . .TAKE-OFF RUNWAY 16R: Climb heading 157° and SEA R-161, thence. . .

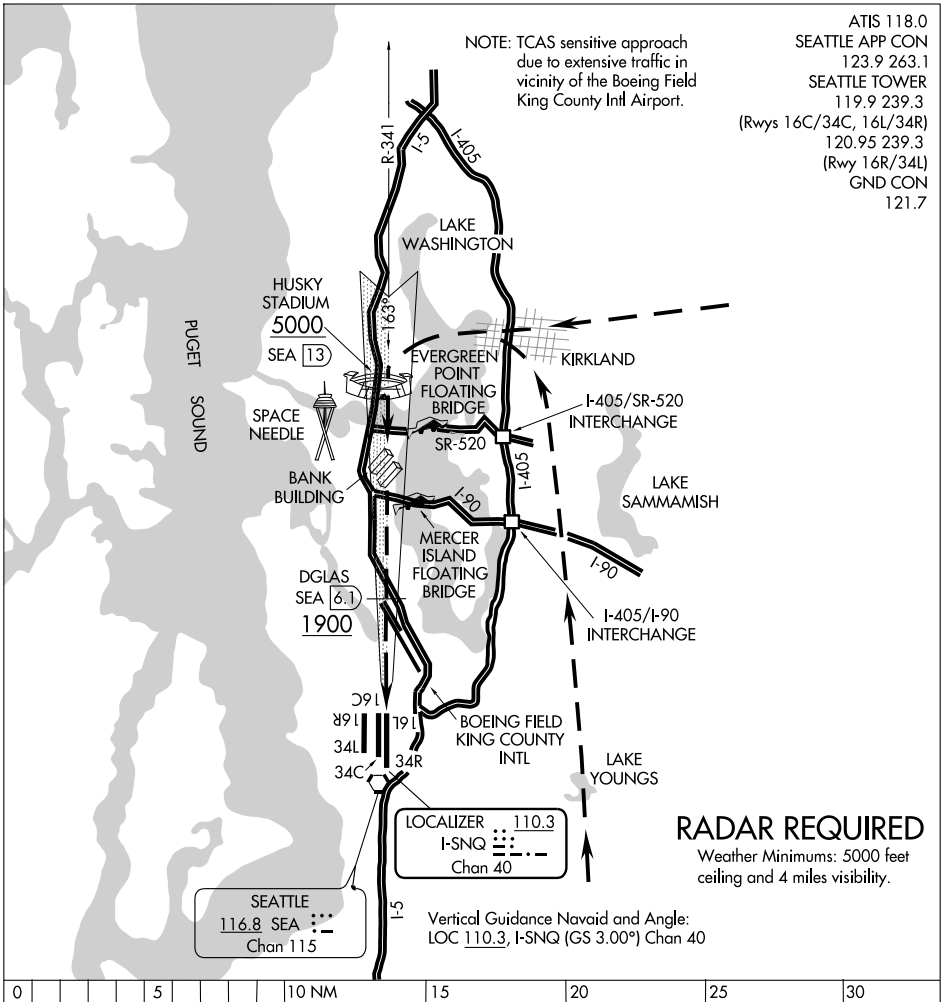
. . . Maintain assigned altitude, expect radar vectors to assigned route.

STADIUM VISUAL RWY 16L

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



STADIUM VISUAL APPROACH RWY 16L

When the ceiling is at least 5000' and visibility is at least 4 miles, aircraft may be vectored over Kirkland or Lake Youngs for a Stadium Visual Runway 16L Approach. When cleared for a Stadium Visual Approach; proceed inbound visually over Husky Stadium (via route depicted); intercept the Runway 16L localizer/SEA R-341 at 13 DME and complete a straight in visual approach to the airport.

SUMMA SEVEN DEPARTURE

SL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)
SEATTLE, WASHINGTON

ATIS
118.0
SEATTLE DEP CON
119.2 284.7

NEZUG
N47°34.12'
W122°18.58'
4000

PAINE
110.6 PAE
Chan 43

TAKE-OFF MINIMUMS

Rwys 16L/C/R: Standard.

Rwys 34L/C/R: Standard with minimum climb of 580' per NM to 4000 (ATC).

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

NEVJO
N47°15.13'
W122°18.58'

OLYMPIA
113.4 OLM
Chan 81

SUMMA
N46°37.07'
W121°59.30'

LAKEVIEW
112.0 LKV
Chan 57
N42°29.57' W120°30.43'
L-11, H-3

BAKER CITY
115.3 BKE
Chan 100
N44°50.44' W117°48.47'
L-13, H-1

NOTE: RADAR and DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb heading 346° and SEA R-341, thence. . .TAKE-OFF RUNWAY 34C: Climb heading 343° and SEA R-341, thence. . .TAKE-OFF RUNWAY 34R: Climb heading 342° and SEA R-341, thence. . .

. . .to cross NEZUG at or above 4000, then right turn heading 070° to cross the PAE R-139, then right turn heading 165° to intercept SEA R-146 to SUMMA INT, then via assigned transition.

TAKE-OFF RUNWAYS 16L/C: Climb heading 163° and SEA R-161, thence. . .TAKE-OFF RUNWAY 16R: Climb heading 161° and SEA R-161, thence. . .

. . .to NEVJO, then left turn heading 130° to intercept the SEA R-146 to SUMMA INT, then via assigned transition.

BAKER CITY TRANSITION (SUMMA7.BKE): From over SUMMA INT via OLM R-100 and BKE R-283 to BKE VOR/DME.LAKEVIEW TRANSITION (SUMMA7.LKV): From over SUMMA INT via SEA R-146 and LKV R-327 to LKV VORTAC.

VORTAC SEA 116.8 Chan 115	APP CRS 161°	Rwy 16L Idg 11901 TDZE 433 Apt Elev 433	Rwy 16C Idg 9426 TDZE 430 Apt Elev 433
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VOR/DME RWY 16L/C
SEATTLE-TACOMA INTL (SEA)

See additional requirements on adjacent information page.

ALSF-2
Rwy 16L/C

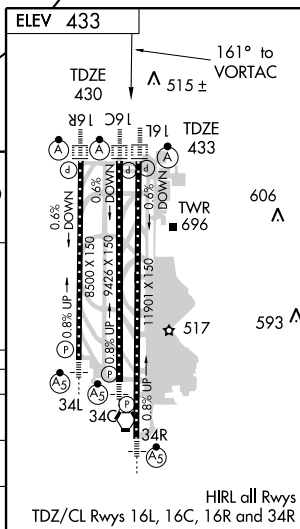
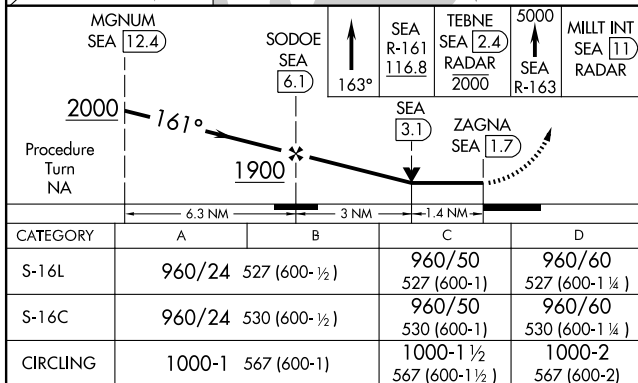
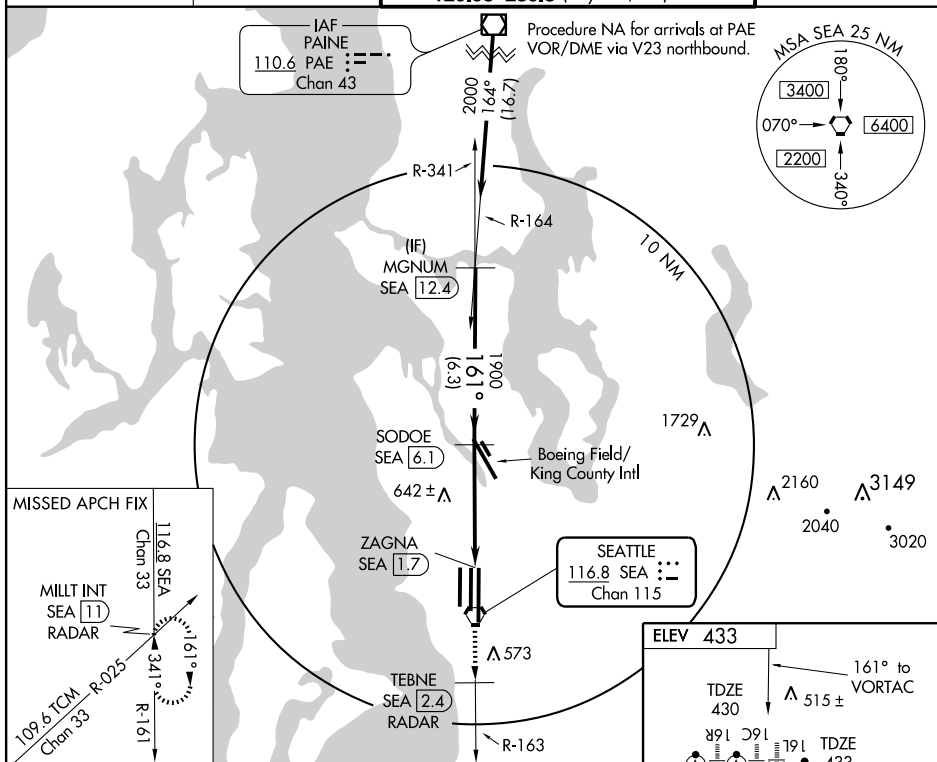
MISSED APPROACH: Climb heading 163° and SEA VORTAC R-161 to cross TEBNE/2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA R-163 to MILIT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS
118.0

SEATTLE APP CON
133.65 273.45

SEATTLE TOWER
119.9 239.3 (Rwys 16C/34C, 16L/34R)
120.95 239.3 (Rwy 16R/34L)

GND CON
121.7



SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

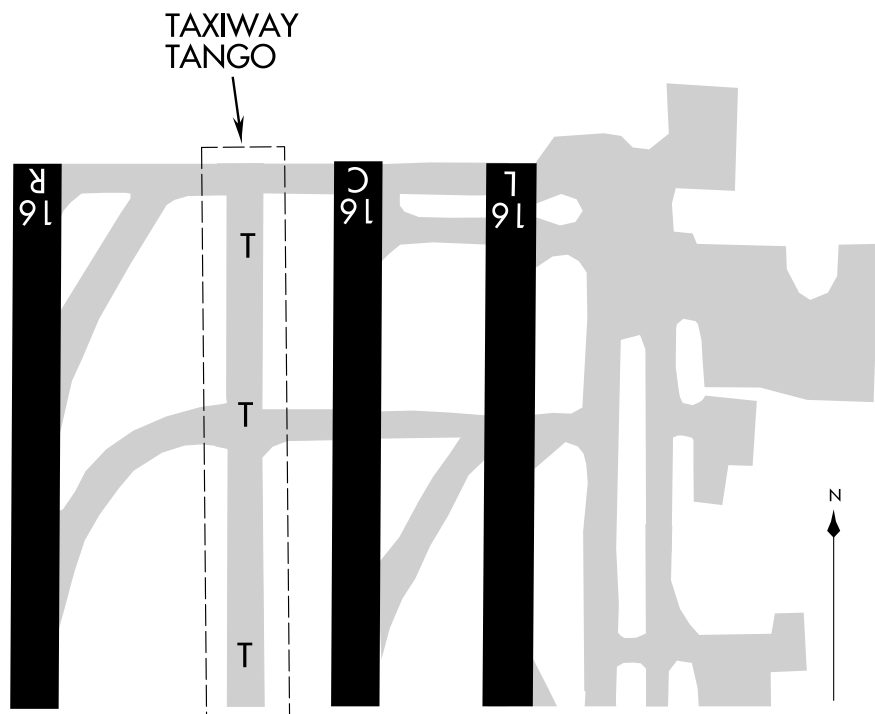
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended when executing a segment of the ILS approach for a visual transition, track the localizer until the runway environment is visually verified.



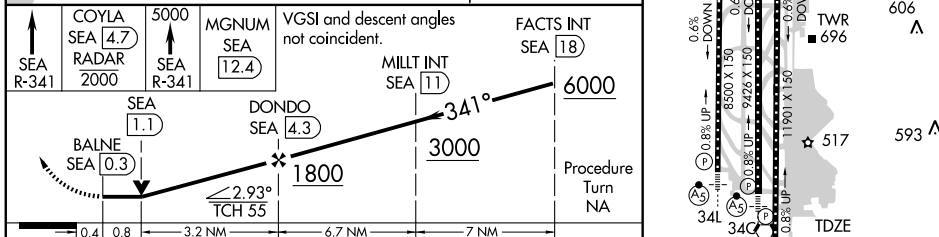
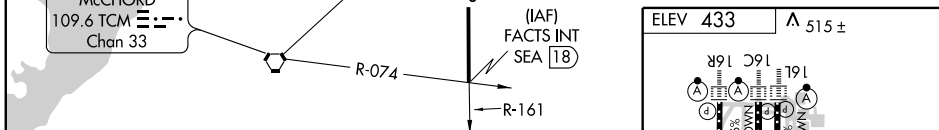
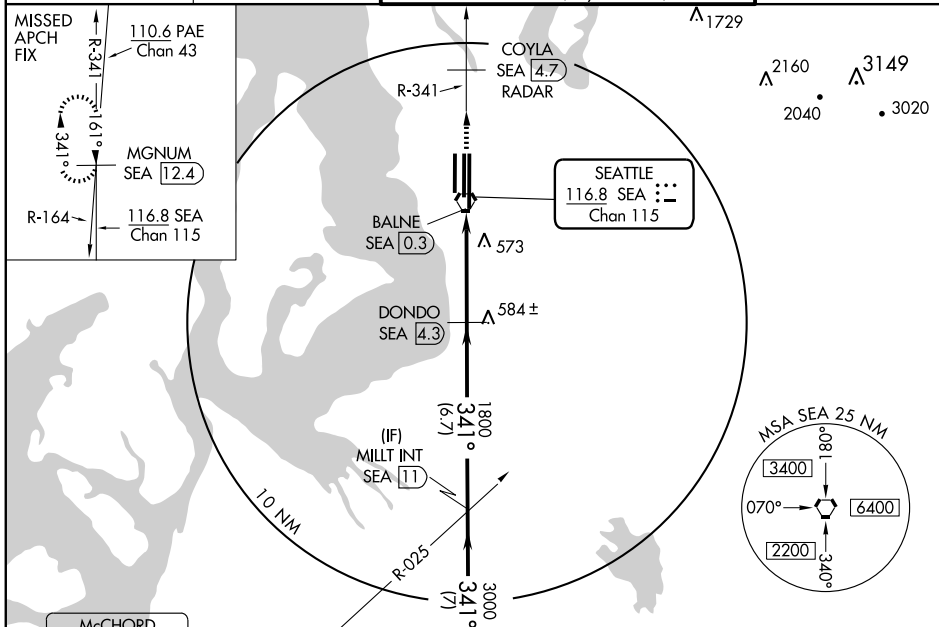
VORTAC SEA 116.8 Chan 115	APP CRS 341°	Rwy 34C Idg 9426 TDZE 387 Apt Elev 433	Rwy 34R Idg 11901 TDZE 372 Apt Elev 433
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VOR/DME RWY 34C

SEATTLE-TACOMA INTL (SEA)

⚠ Inoperative table does not apply to sidestep 34R Cats. A and B.	MALSR Rwy 34C/R 	MISSED APPROACH: Climb via SEA R-341 to cross COYLA/4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA R-341 to MGNUM/SEA 12.4 DME and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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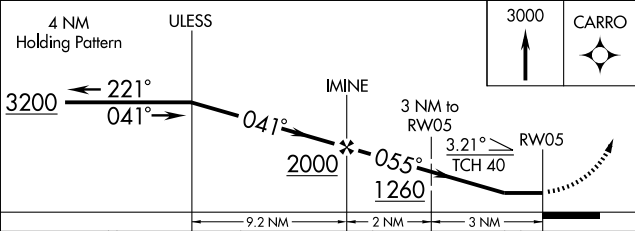
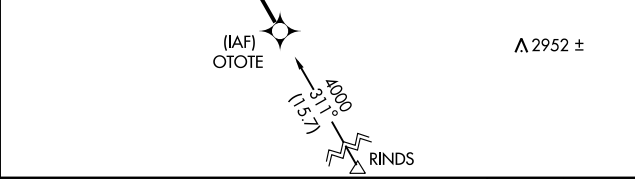
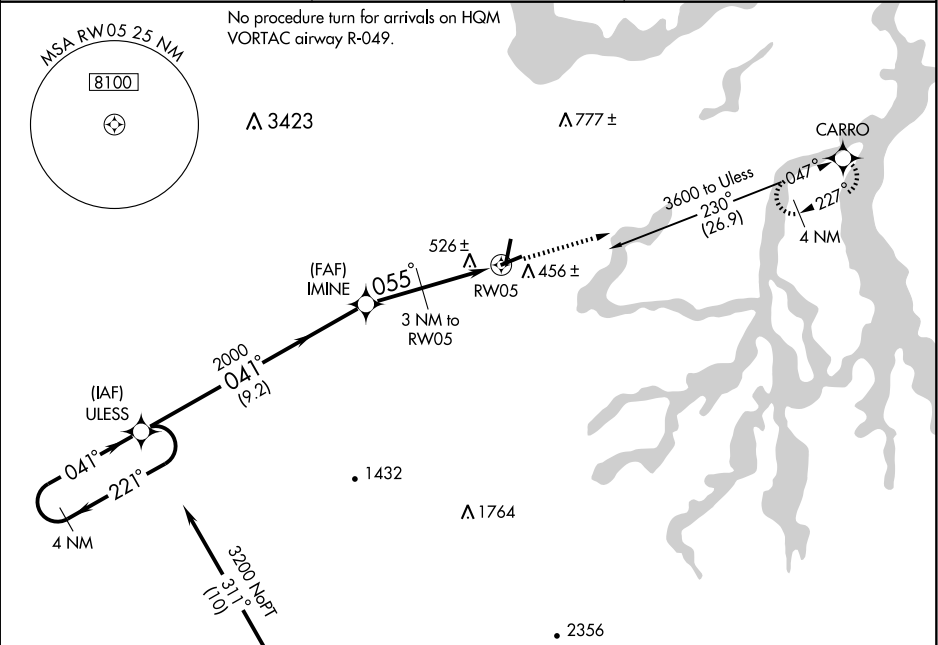


CATEGORY	A	B	C	D
S-34C	840/24 453 (500-½)	840/40 453 (500-¾)	840/50 453 (500-1)	
SIDESTEP 34R	840/60 468 (500-1¼)		840-1¾ 468 (500-1¾)	
CIRCLING	1000-1 567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)	

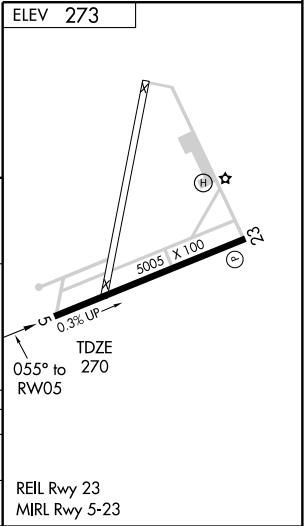
APP CRS	Rwy Idg	5005
055°	TDZE	270
	Apt Elev	273

▼ ▲ NA	MISSED APPROACH: Climb to 3000 direct CARRO WP and hold.
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ASOS 119.275	SEATTLE APP CON 121.1 290.9	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-5	780-1	510 (600-1)	780-1½ 510 (600-1½)	780-1¾ 510 (600-1¾)
CIRCLING	840-1	567 (600-1)	940-2 667 (700-2)	1000-2¼ 727 (800-2¼)



GPS RWY 23

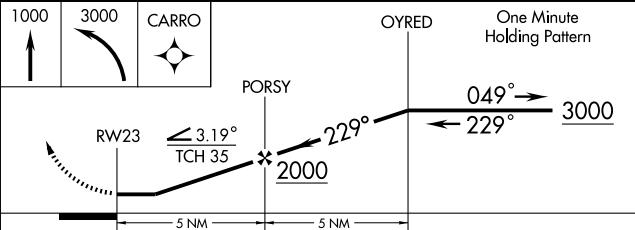
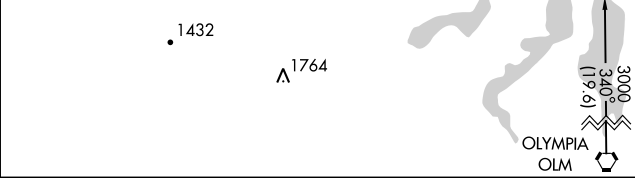
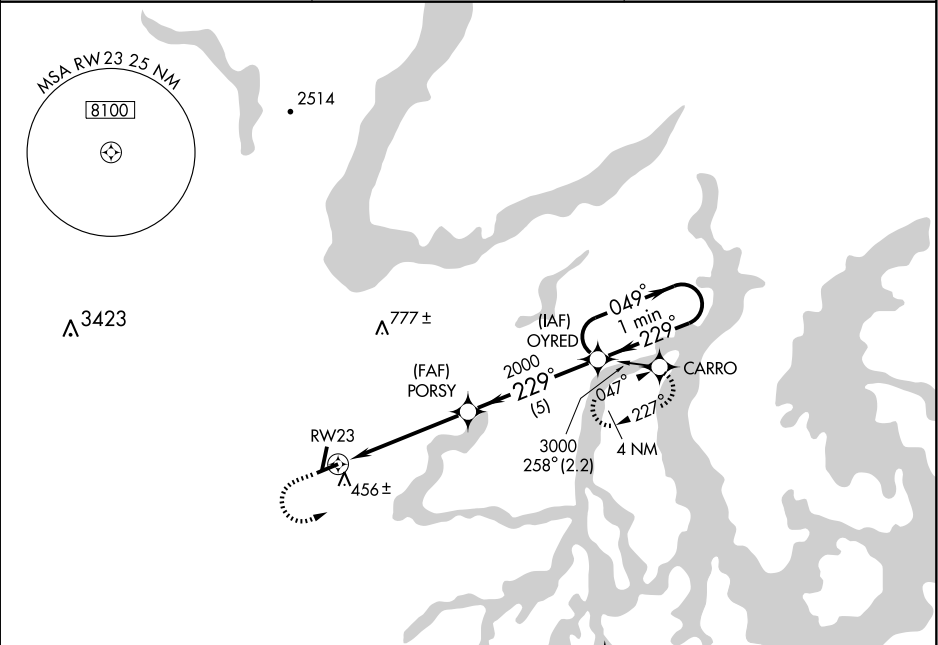
SHELTON/ SANDERSON FIELD (SHN)

APP CRS	Rwy Idg	5005
229°	TDZE	273
	Apt Elev	273

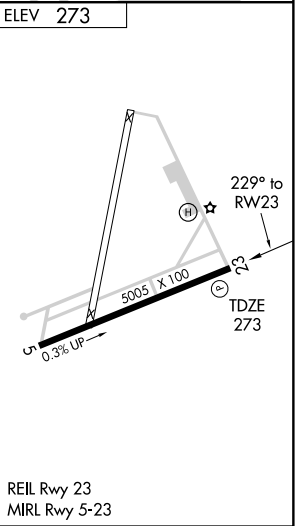

NA

MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 direct CARRO WP and hold.

ASOS 119.275	SEATTLE APP CON 121.1 290.9	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-23	860-1 587 (600-1)		860-1½ 587 (600-1½)	860-1¾ 587 (600-1¾)
CIRCLING	860-1 587 (600-1)		940-2 667 (700-2)	1000-2¼ 727 (800-2¼)



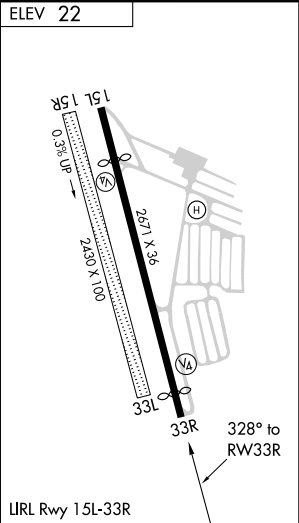
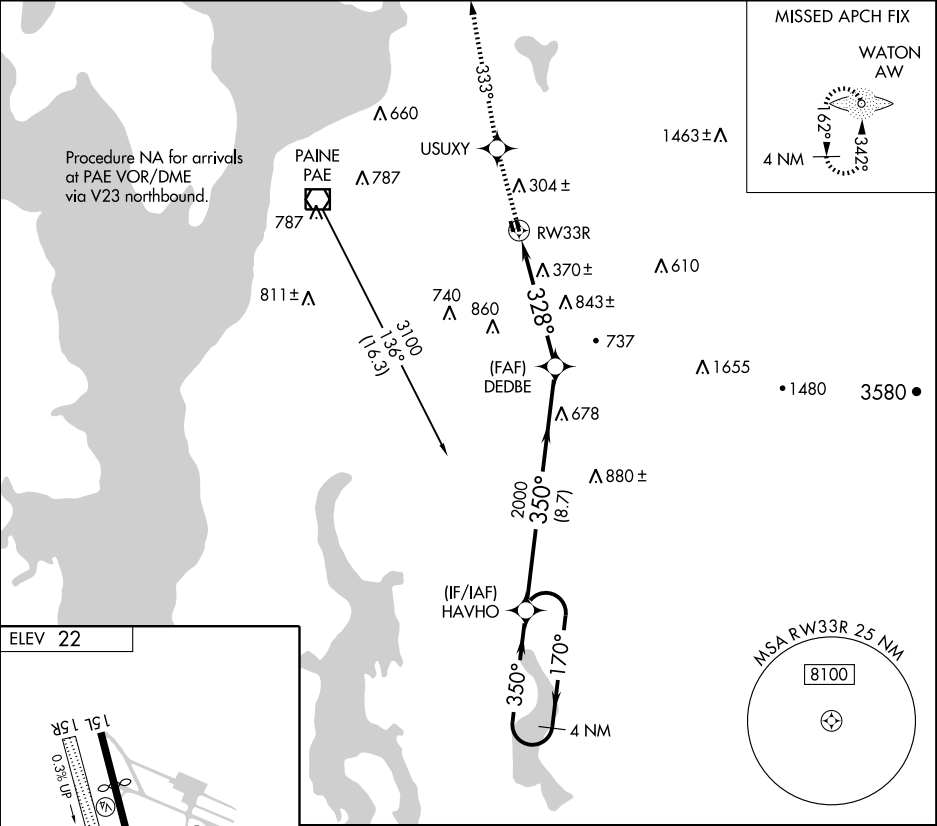
REIL Rwy 23
MIRL Rwy 5-23

APP CRS	Rwy Idg	N/A
328°	TDZE	N/A
	Apt Elev	22

RNAV (GPS)-A
SNOHOMISH/ HARVEY FIELD (S43)

NA DME/DME RNP-0.3 NA. Procedure NA at night. Use Arlington altimeter setting. When not received, use Everett altimeter setting and increase all MDA 60 feet.	MISSED APPROACH: Climb to 2000 direct USUXY and via 333° track to WATON LOM and hold.
--	--

ARLINGTON AWOS-3 135.625	SEATTLE CENTER 128.5 306.9	UNICOM 123.0 (CTAF)
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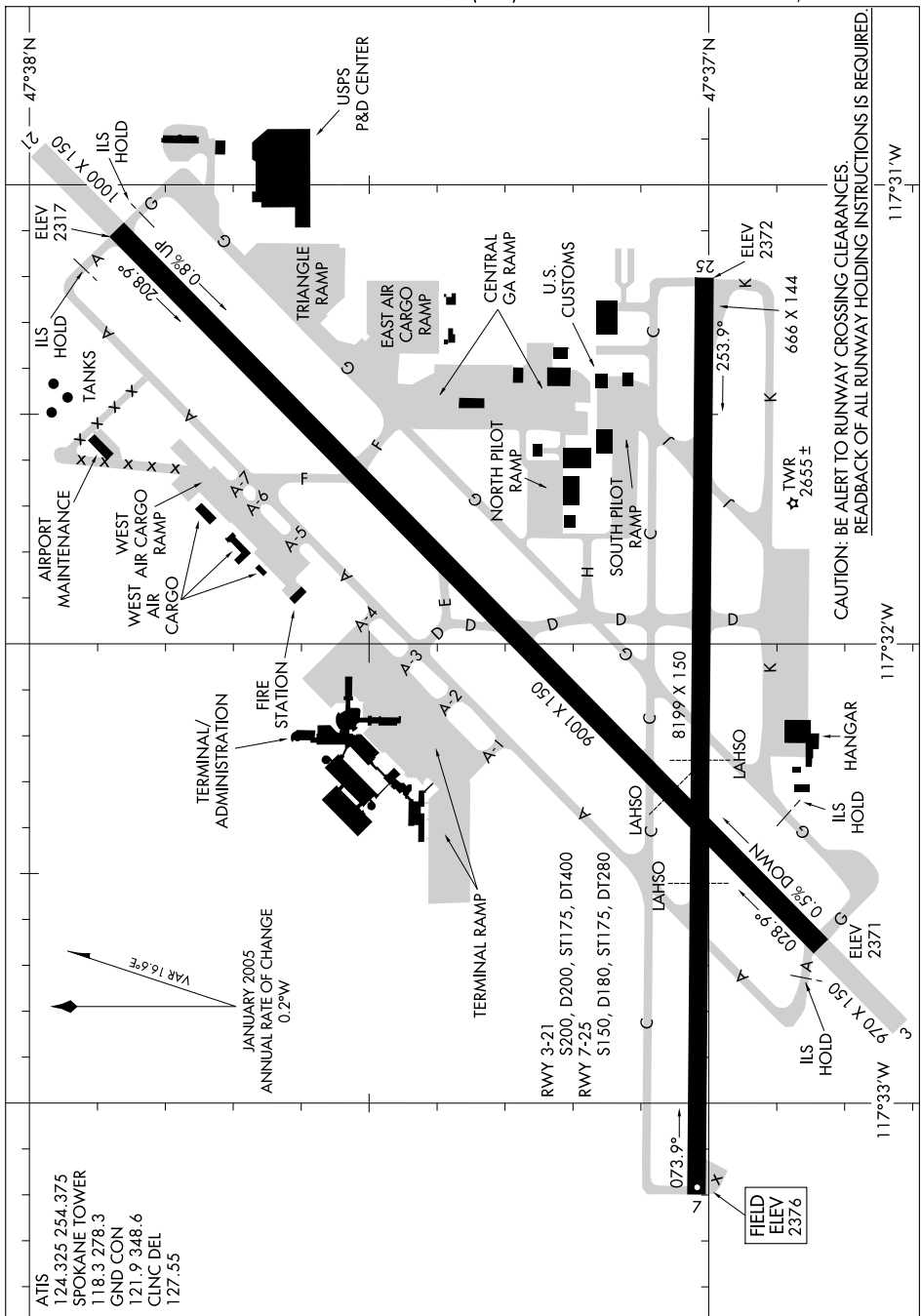


2000	USUXY	333° track	AW	HAVHO	4 NM Holding Pattern
VGSI and descent angles not coincident.		DEDBE			
RW33R		328°			
328°		350°			
350°		170°			
170°		3100			
5 NM		8.7 NM			
CATEGORY	A	B	C	D	
CIRCLING	1220-1¼ 1198 (1200-1¼)	1220-1½ 1198 (1200-1½)	NA		

AIRPORT DIAGRAM

AL-403 (FAA)

SPOKANE INTL (GEG)
SPOKANE, WASHINGTON



NW-1. 14 JAN 2010 to 11 FEB 2010

SPOKANE APP CON

133.35 263.0

SPOKANE INIT ATIS

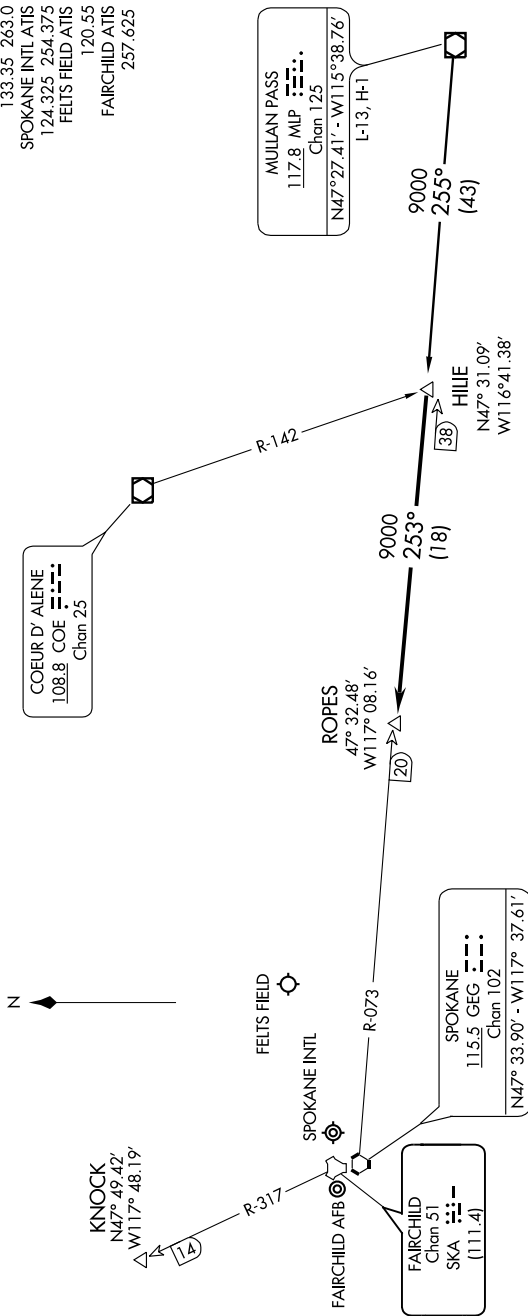
124.325 254.375

FELTS FIELD ATIS

120.55

FAIRCHILD ATIS

257.625



MULLAN PASS TRANSITION (MLP.HILIE1): From over MLP VOR/DME via MLP R-255 to HILIE INT. Thence. . .

. . . From over HILIE INT via GEG R-073 to ROPES INT. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: After ROPES INT:

Landing Spokane Intl or Felts Field: Proceed to GEG VORTAC via GEG R-073, maintain last altitude to GEG.

Landing Fairchild AFB: Proceed to KNOCK DME via direct, maintain last assigned altitude to KNOCK.

NOTE: DME and RADAR required.

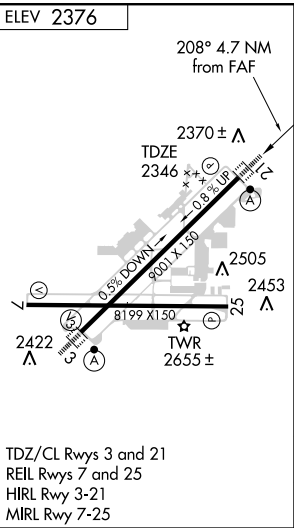
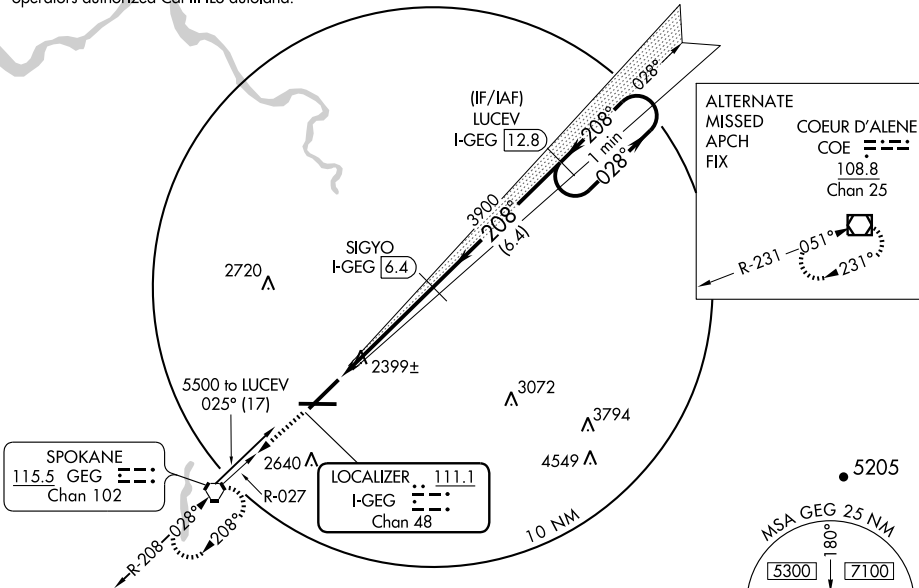
NOTE: Chart not to scale.

LOC/DME I-GEG	APP CRS	Rwy Idg	9001
111.1	208°	TDZE	2346
Chan 48		Apt Elev	2376

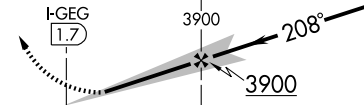
ILS or LOC/DME RWY 21
SPOKANE INTL (GEG)

⚠ For inoperative ALSF, increase S-LOC 21 Cat D visibility to 1.		ALSF-2 	MISSED APPROACH: Climb to 4200 via GEG VORTAC R-027 to GEG VORTAC and hold.	
ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55

Autoland NA when weather below 300/1 except for operators authorized Cat III ILS autoland.



DME REQUIRED

4200 ↑ GEG R-027 GEG 115.5		VGSI and ILS glidepath not coincident.		LUCEV I-GEG 12.8		One Minute Holding Pattern			
Use I-GEG DME when on LOC course.		SIGYO I-GEG 6.4		3900		028° ← 208° 5500			
I-GEG 1.7 		3900		GS 3.00° TCH 59					
CATEGORY		A		B		C		D	
S-ILS 21				2546/18		200 (200-½)			
S-LOC 21		2680/24		334 (400-½)				2680/40 334 (400-¾)	
CIRCLING		2960-1 584 (600-1)		2960-1½ 584 (600-1½)		2980-2 604 (700-2)			

LOC/DME I-OLJ <u>111.1</u> Chan 48	APP CRS 027°	Rwy Idg 9001 TDZE 2371 Apt Elev 2376
--	------------------------	---

ILS or LOC RWY 3
SPOKANE INTL (GEG)

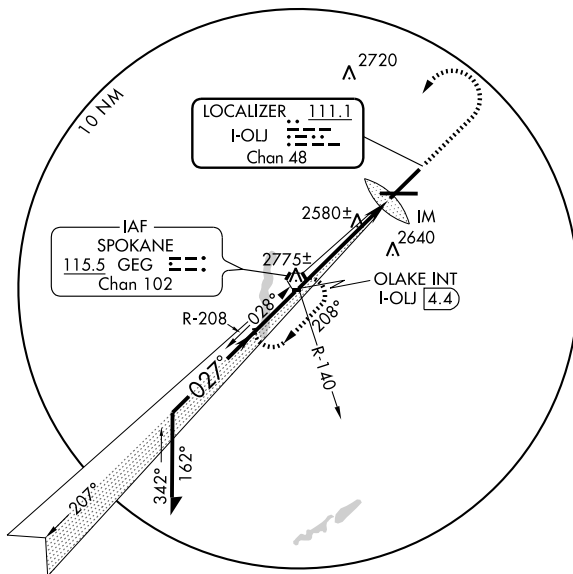


ALSF-2

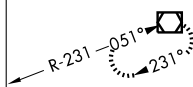


MISSED APPROACH: Climb to 2900 then climbing left turn to 4200 direct GEG VORTAC and hold.

ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55
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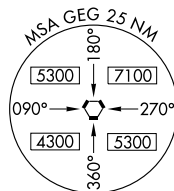
ALTERNATE
MISSED COEUR D'ALENE
APCH COE 
FIX 108.8
Chan 25



Λ 3072

A 3794

4549 A



VGSI and ILS glidepath not coincident.
Use I-OL DME when on LOC course.

VORTAC

2900

4200

GFG



DME
ANTENNA

[illegible]IM
I

Remain
within 10 NM

4400 =

GS 3.00°
TCH 51

207°

OLAKE INT

4.4)

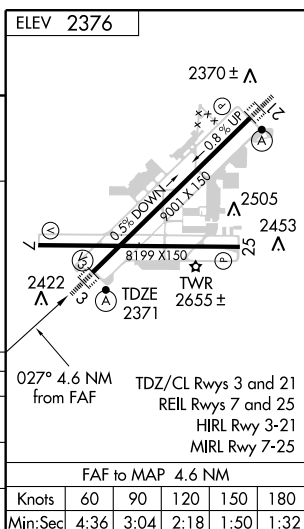
1

6

2

245

NW-1-14 JAN 2010 to 11 FEB 2010

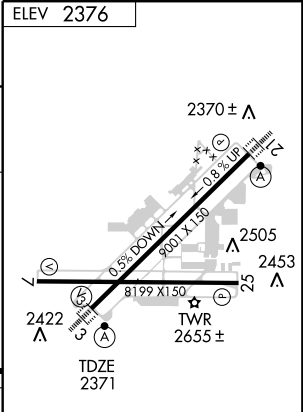
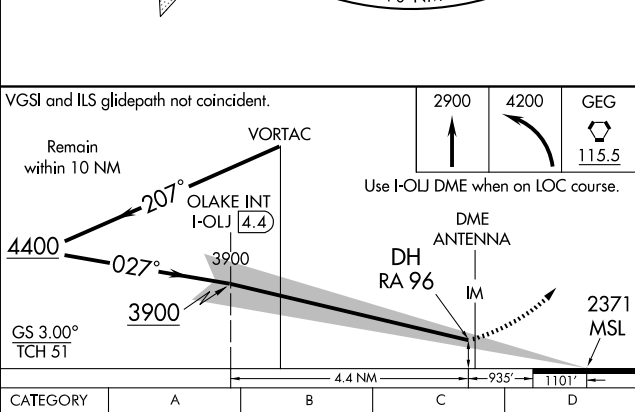
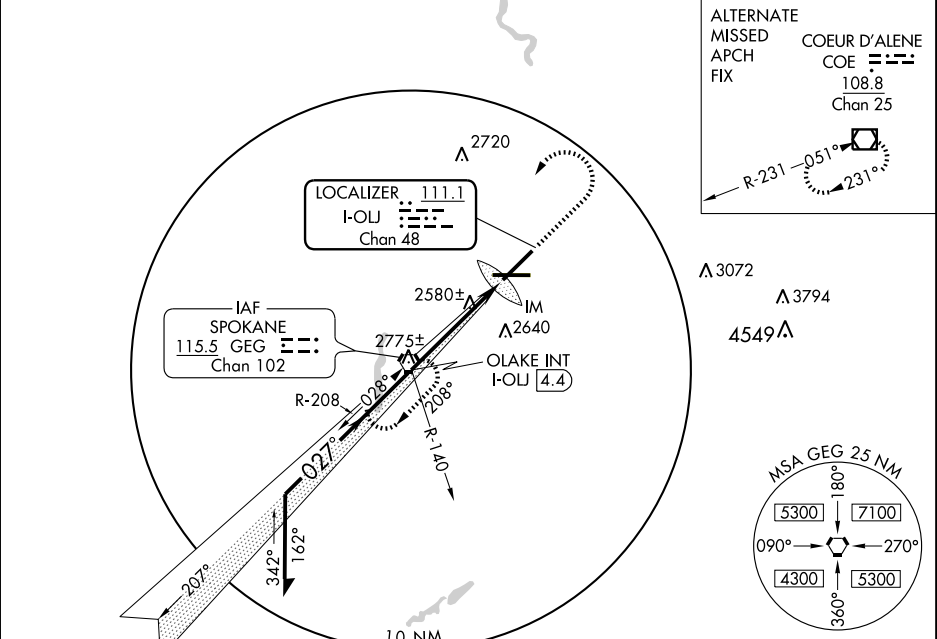


LOC/DME I-OLJ	APP CRS	Rwy Idg	9001
111.1	027°	TDZE	2371
Chan 48		Apt Elev	2376

ILS RWY 3 (CAT II)
SPOKANE INTL (GEG)

	ALSF-2 	MISSED APPROACH: Climb to 2900 then climbing left turn to 4200 direct GEG VORTAC and hold.
--	------------	--

ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55
-------------------------	--	------------------------------	------------------------	--------------------



CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25

LOC/DME I-OLJ	APP CRS	Rwy Idg	9001
111.1	027°	TDZE	2371
Chan 48		Apt Elev	2376

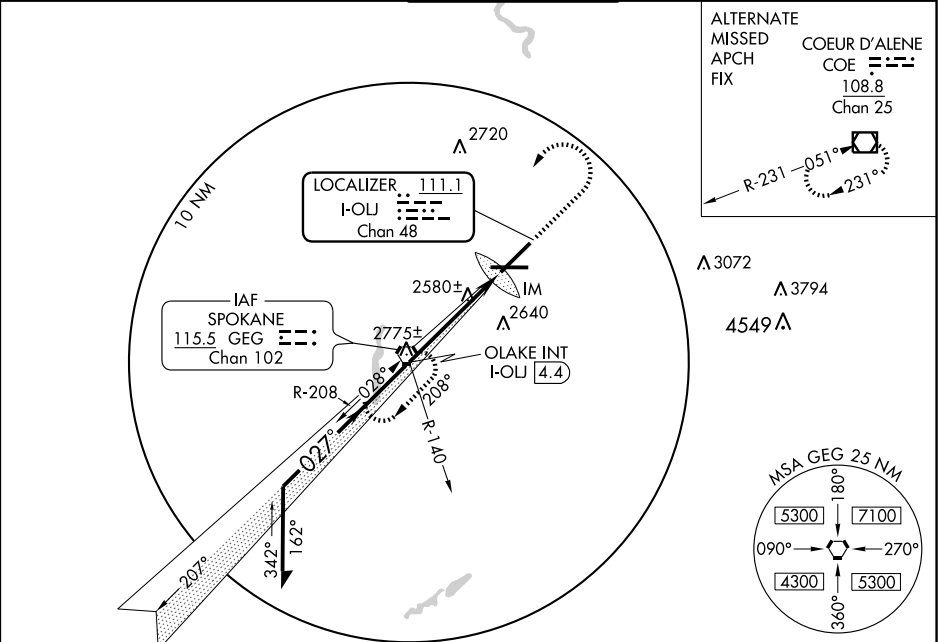
ILS RWY 3 (CAT III)
SPOKANE INTL (GEG)



ALSF-2

MISSED APPROACH: Climb to 2900 then climbing left turn to 4200 direct GEG VORTAC and hold.

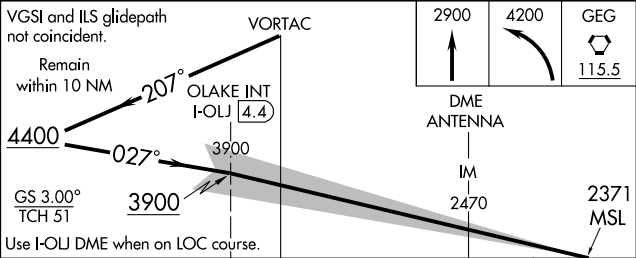
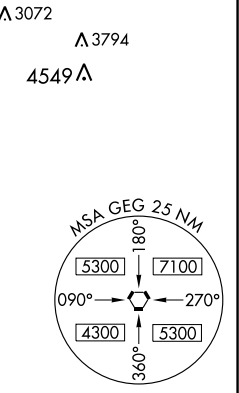
ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CLNC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55



ALTERNATE MISSED APCH FIX

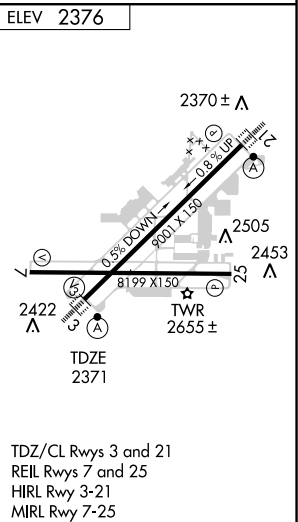
COEUR D'ALENE COE 108.8 Chan 25

R-231-051° 231°



CATEGORY	A	B	C	D
S-ILS 3		CAT IIIa RVR 700		
S-ILS 3		CAT IIIb RVR 600		
S-ILS 3		CAT IIIc NA		

CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED



TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25

LOC/DME I-GEG	APP CRS	Rwy Idg	9001
111.1	208°	TDZE	2346
Chan 48		Apt Elev	2376

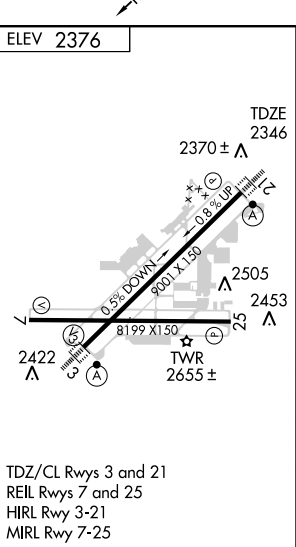
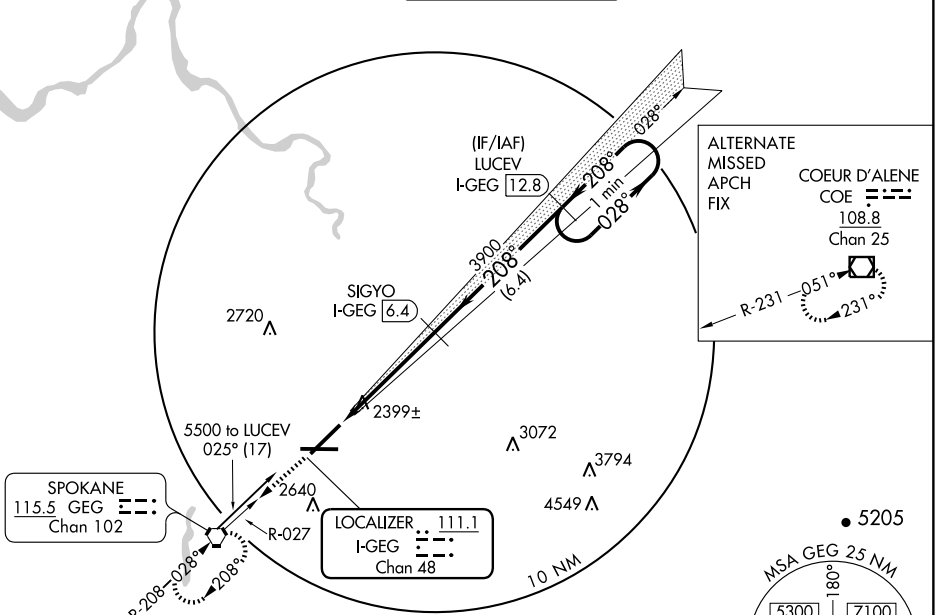
ILS RWY 21 (CAT III)

SPOKANE INTL (GEG)

ALSF-2

MISSED APPROACH: Climb to 4200 via GEG VORTAC R-027 to GEG VORTAC and hold.

ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CLNC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55



SPECIAL AUTOLAND
EVALUATION REQUIRED

DME REQUIRED

4200

GEG

115.5

Use I-GEG DME when on LOC course.

VGSI and ILS glidepath not coincident.

SIGYO

I-GEG

6.4

LUCEV

I-GEG

12.8

One Minute Holding Pattern

028°

208°

5500

GS 3.00°

TCH 59

CATEGORY	A	B	C	D
S-ILS 21		CAT IIIa	RVR 07	
S-ILS 21		CAT IIIb	RVR 06	
S-ILS 21		CAT IIIc	NA	

CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

NW-1. 14 JAN 2010 to 11 FEB 2010

RIDDLE HILL VISUAL RWY 7

AL-403 (FAA)

SPOKANE INTL (GEG)
SPOKANE, WASHINGTON

ATIS

124.325 254.375

SPOKANE APP CON

123.75 282.25 (WEST)

133.35 263.0 (EAST)

SPOKANE TOWER

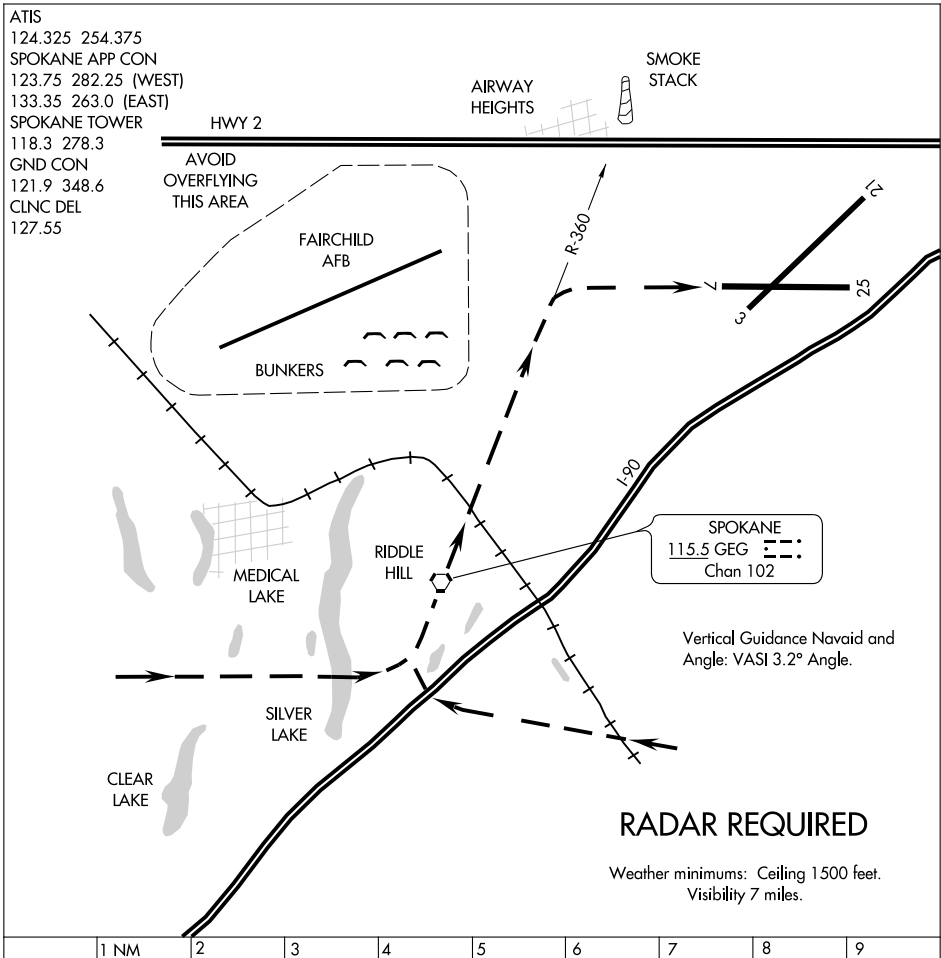
118.3 278.3

GND CON

121.9 348.6

CLNC DEL

127.55



RIDDLE HILL VISUAL APPROACH RWY 7

PROCEDURE NOT AUTHORIZED AT NIGHT.

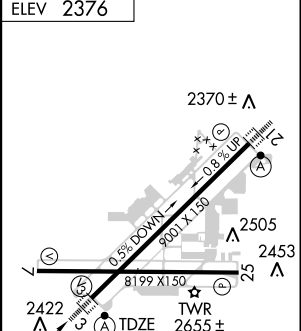
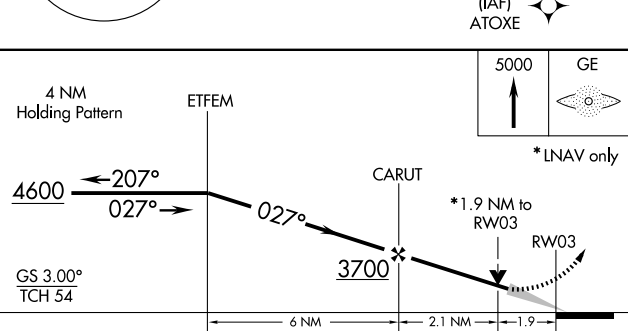
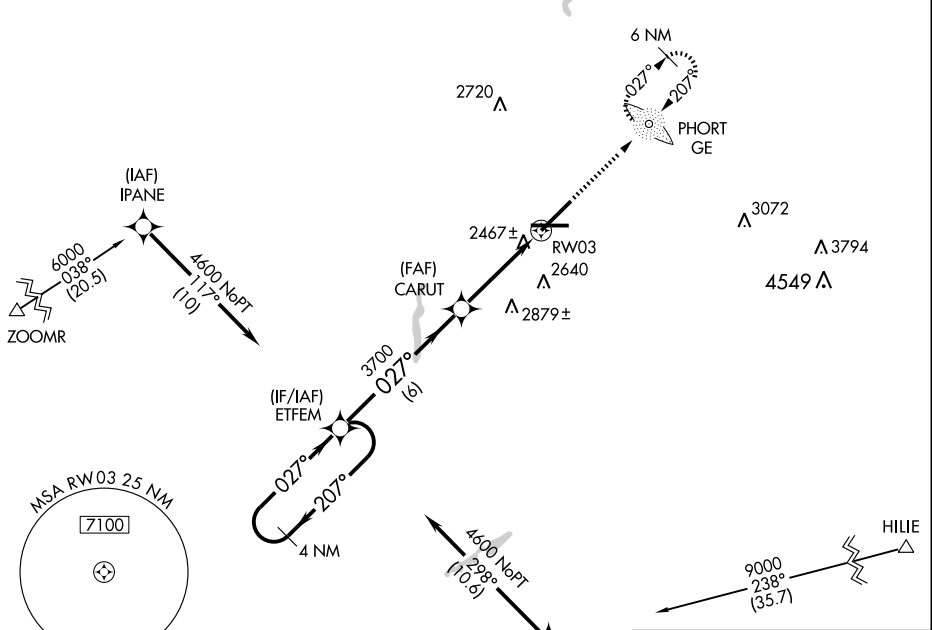
APP CRS 027°
Rwy Idg TDZE 9001 2371
Apt Elev 2376

RNAV (GPS) RWY 3
SPOKANE INTL (GEG)

DME/DME RNP-0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 43°C (110°F).

ALSF-2
MISSED APPROACH: Climb to 5000 direct PHORT LOM and hold.

ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55
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CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	2979-2 608 (700-2)			
LNAV MDA	3020/24 649 (700-½)	3020/60 649 (700-¼)	3020-1½ 649 (700-½)	3020-2 649 (700-½)
CIRCLING	3020-1 644 (700-1)	3020-1¾ 644 (700-¾)	3020-2 644 (700-2)	3020-2 644 (700-2)

TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MRL Rwy 7-25

WAAS CH 48801 W07A	APP CRS 072°	Rwy Idg 8199 TDZE 2376 Apt Elev 2376
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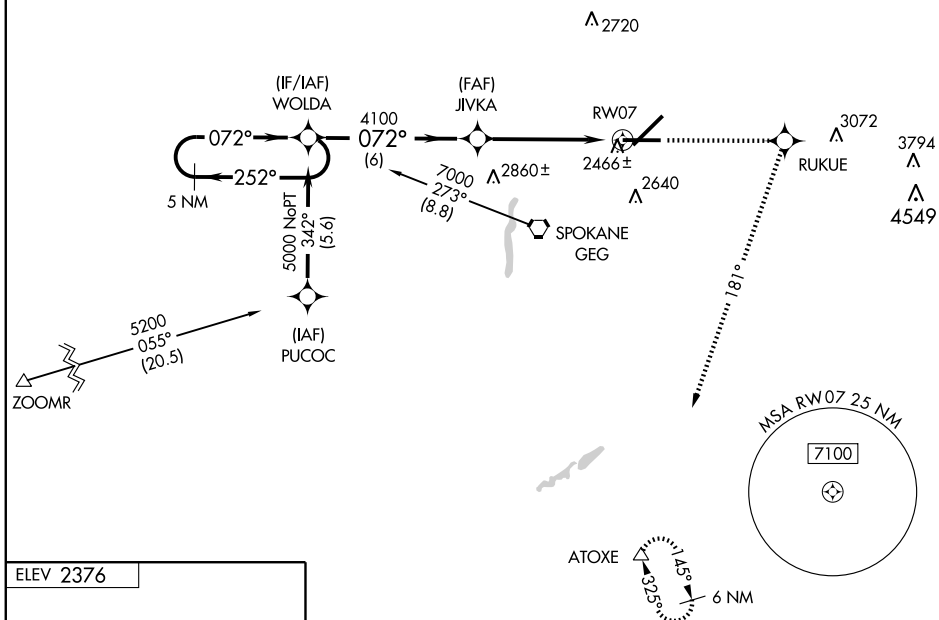
RNAV (GPS) RWY 7
SPOKANE INTL (GEG)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

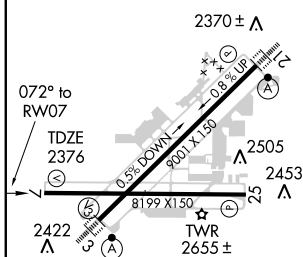
MISSED APPROACH: Climb to 6000 direct RUKUE and via 181° track to ATOXE and hold, continue climb-in-hold to 6000.

ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55
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Procedure NA for arrivals at GEG VORTAC via V120 northbound.



ELEV 2376



TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25

5 NM Holding Pattern

WOLDA

6000

RUKUE

181° track

ATOXE

5000

← 252°

072° →

JIVKA

* 1.1 NM to RW07

* LNAV only

4100

6 NM

4.1 NM

1.1

RW07

GS 3.00°

TCH 60

APP CRS	Rwy Idg	9001
208°	TDZE	2346
	Apt Elev	2376

RNAV (GPS) RWY 21

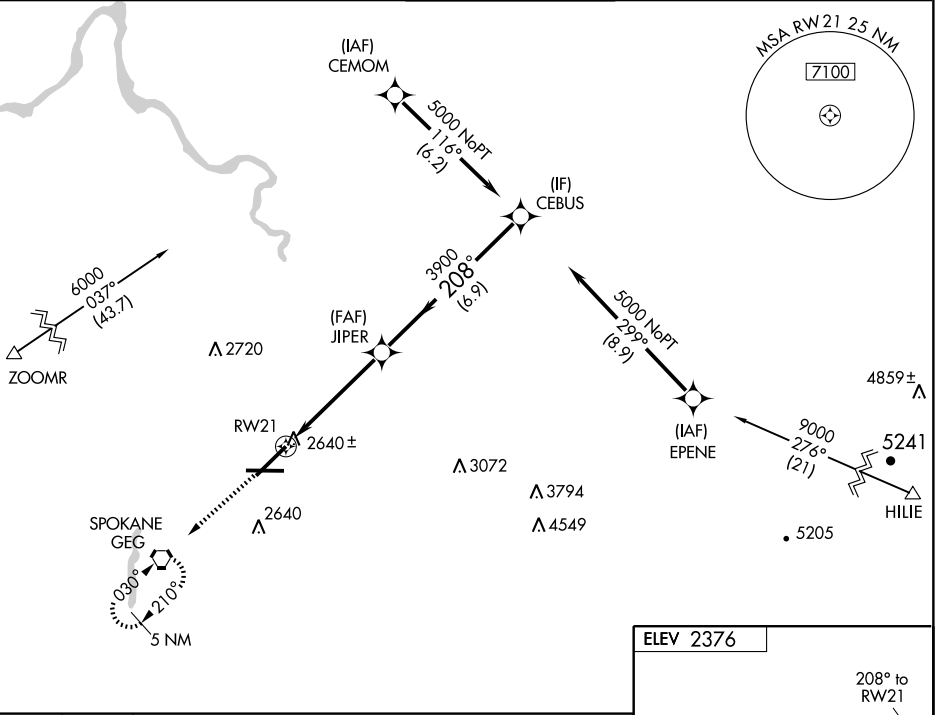
SPOKANE INTL (GEG)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
DME/DME RNP-0.3 NA.

ALSF-2

MISSED APPROACH: Climb to 4200 direct GEG VORTAC and hold.

ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CLNC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55



4200

GEG

VGSI and RNAV glidepath not coincident.

*LNAV only

RW21

JIPER

CEBUS

Procedure Turn NA

5000

3900

208°

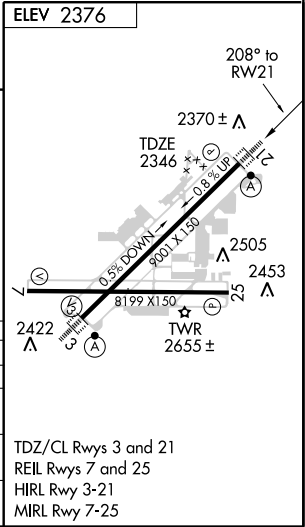
1.4

3.4 NM

6.9 NM

GS 3.00°

TCH 50



CATEGORY	A	B	C	D
GLS PA DA				
LNAV/VNAV DA	2720/50 374 (400-1)			2720/50 374 (400-1)
LNAV MDA	2800/24 454 (500-½)	2800/40 454 (500-¾)	2800/50 454 (500-1)	2800/50 454 (500-1)
CIRCLING	2960-1 584 (600-1)	2960-1 584 (600-1)	2960-1½ 584 (600-1½)	2980-2 604 (700-2)

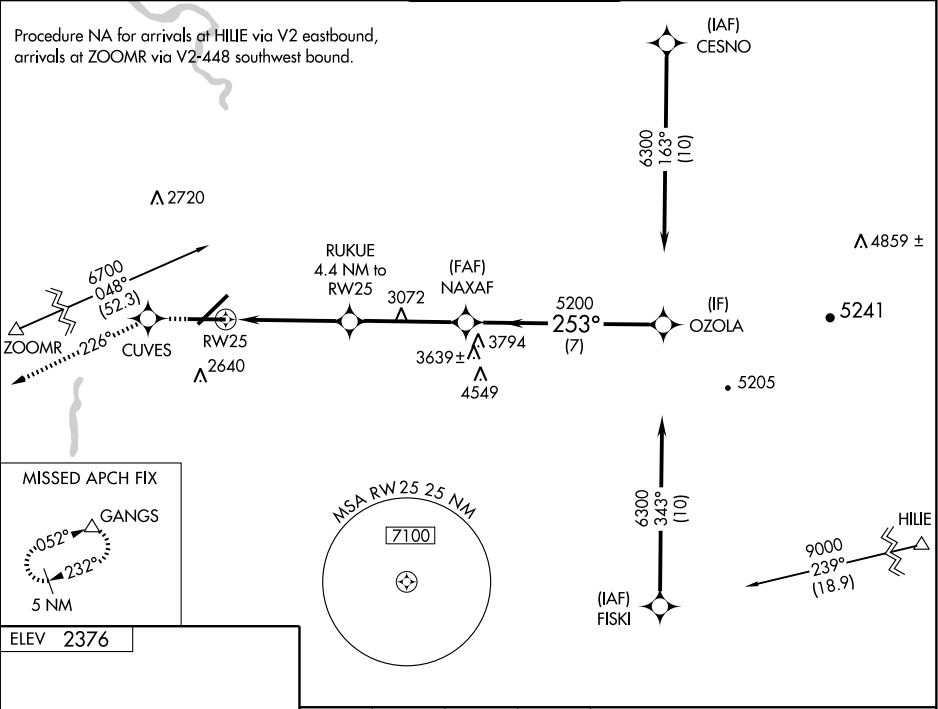
WAAS CH 93501 W25A	APP CRS 253°	Rwy Idg TDZE Apt Elev	8199 2372 2376
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RNAV (GPS) RWY 25
SPOKANE INTL (GEG)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 5000 direct CUVES and via 226° track to GANGS and hold.

ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55
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CATEGORY	A	B	C	D
LPV DA	2704-1¼		332 (400-1¼)	
LNAV/VNAV DA	2782-1½		410 (500-1½)	
LNAV MDA	2900-1	528 (600-1)	2900-1½ 528 (600-1½)	2900-1¾ 528 (600-1¾)
CIRCLING	2960-1	584 (600-1)	2960-1½ 584 (600-1½)	2980-2 604 (700-2)

TDZ/CL Rwy 3 and 21
 REIL Rwy 7 and 25
 HIRL Rwy 3-21
 MRL Rwy 7-25

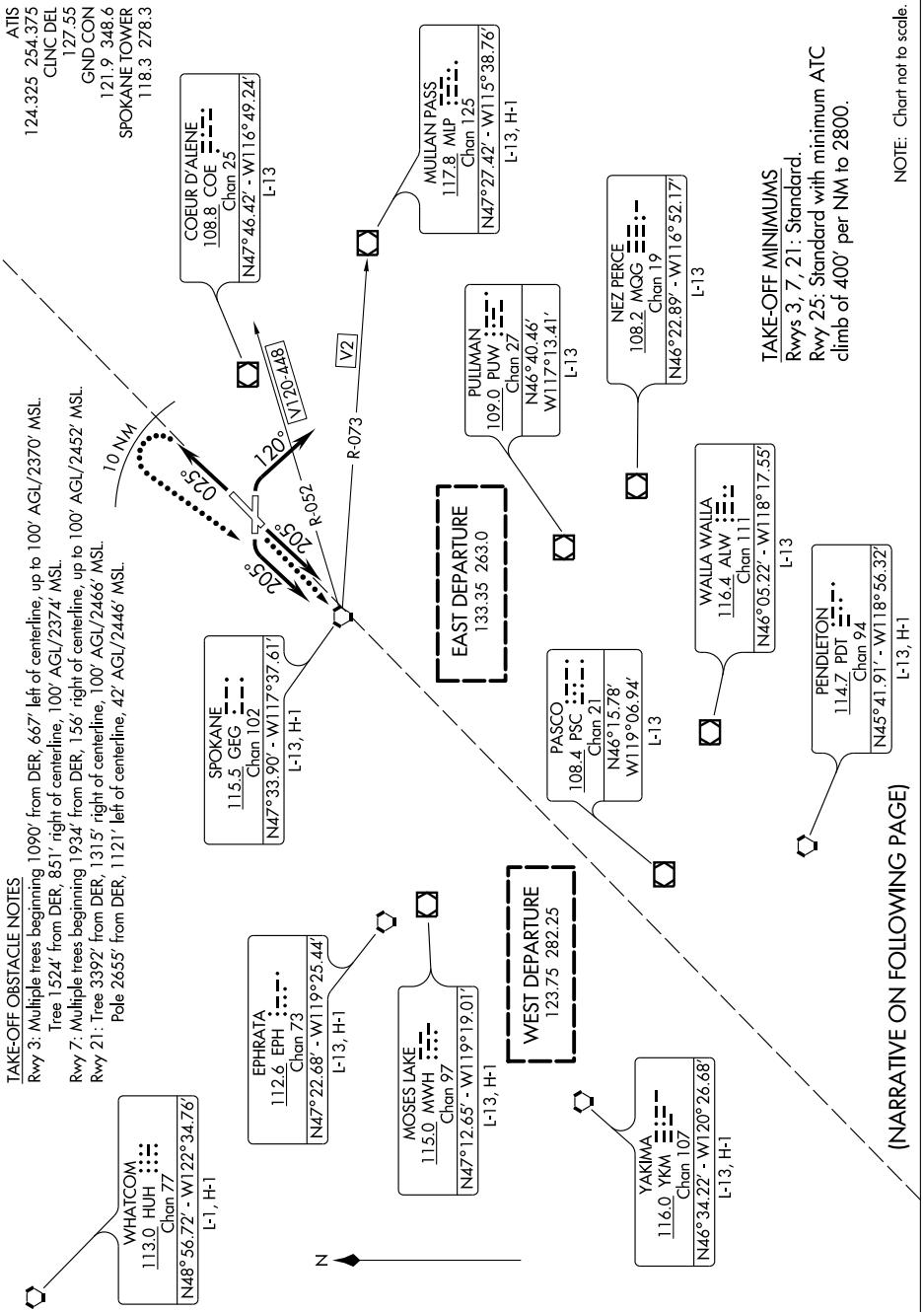
SPOKANE EIGHT DEPARTURE

SL-403 (FAA)

SPOKANE INTL (GEG)
SPOKANE, WASHINGTON

ATIS
124.325 254.375
CINC DEL
127.55
GND CON
121.9 348.6
SPOKANE TOWER
118.3 278.3

TAKE-OFF OBSTACLE NOTES
Rwy 3: Multiple trees beginning 1090' from DER, 667' left of centerline, up to 100' AGL/2370' MSL.
Tree 1524' from DER, 851' right of centerline, 100' AGL/2374' MSL.
Rwy 7: Multiple trees beginning 1934' from DER, 156' right of centerline, up to 100' AGL/2452' MSL.
Rwy 21: Tree 3392' from DER, 1315' right of centerline, 100' AGL/2466' MSL.
Pole 2655' from DER, 1121' left of centerline, 42' AGL/2446' MSL.



TAKE-OFF MINIMUMS
Rwys 3, 7, 21: Standard.
Rwy 25: Standard with minimum ATC
climb of 400' per NM to 2800.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Turn left heading 025°, expect radar vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 7: Turn right heading 120°, expect radar vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 21: Turn left heading 205°, expect radar vectors to assigned airway/route. Thence....

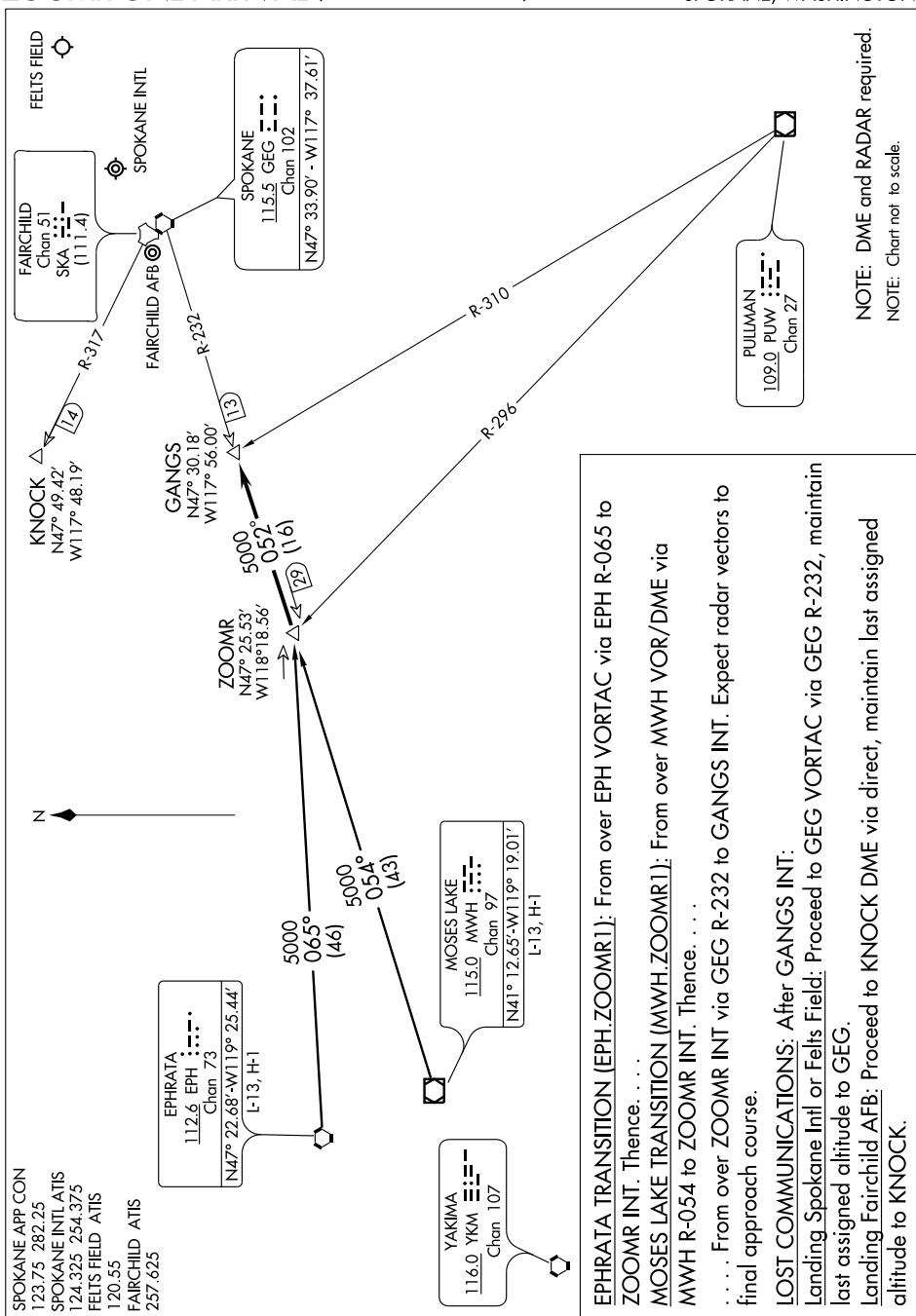
TAKE-OFF RUNWAY 25: Turn left heading 205°, expect radar vectors to assigned airway/route. Thence....

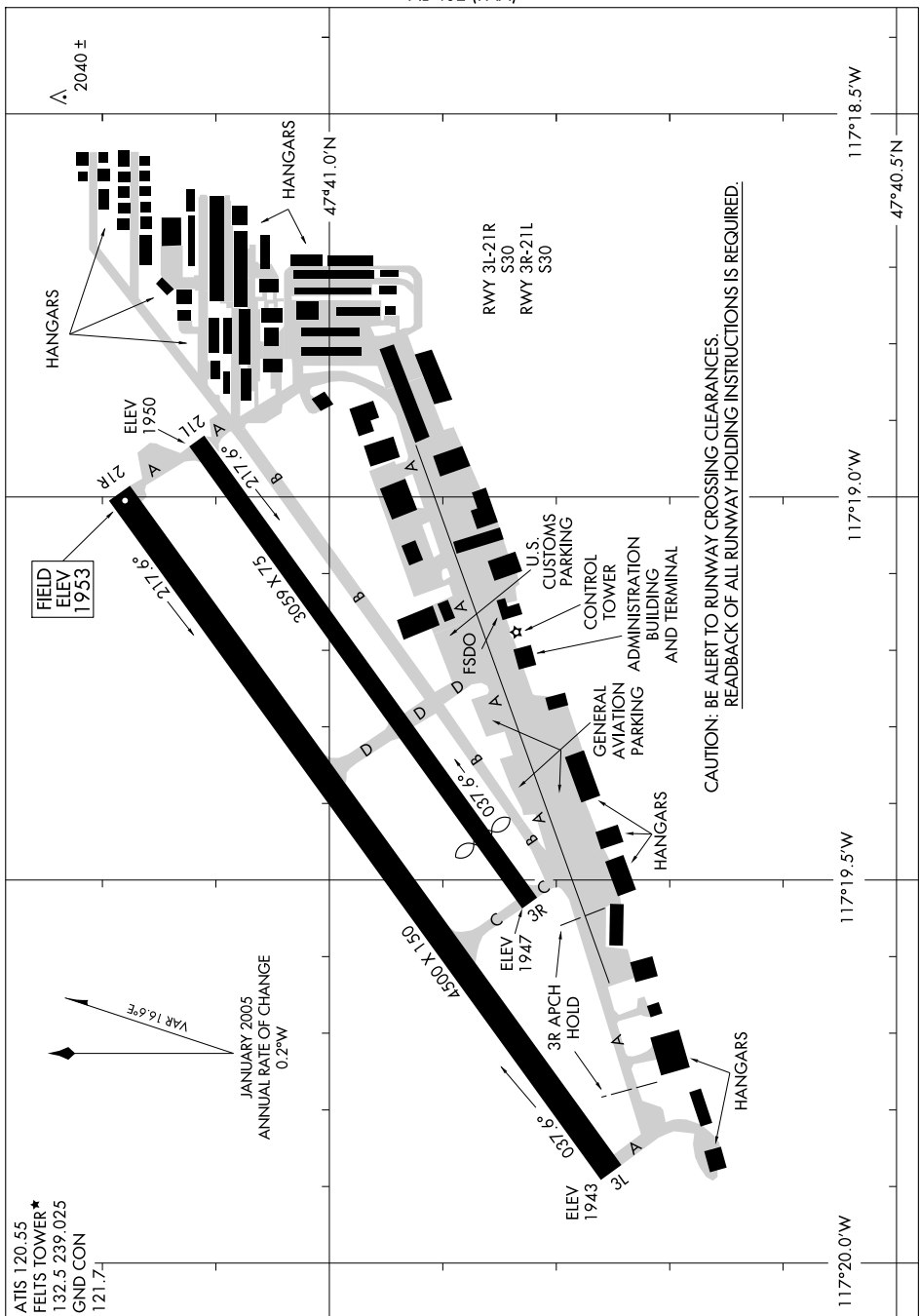
....maintain 12000' or assigned lower altitude, expect filed altitude/flight level 10 minutes after departure.

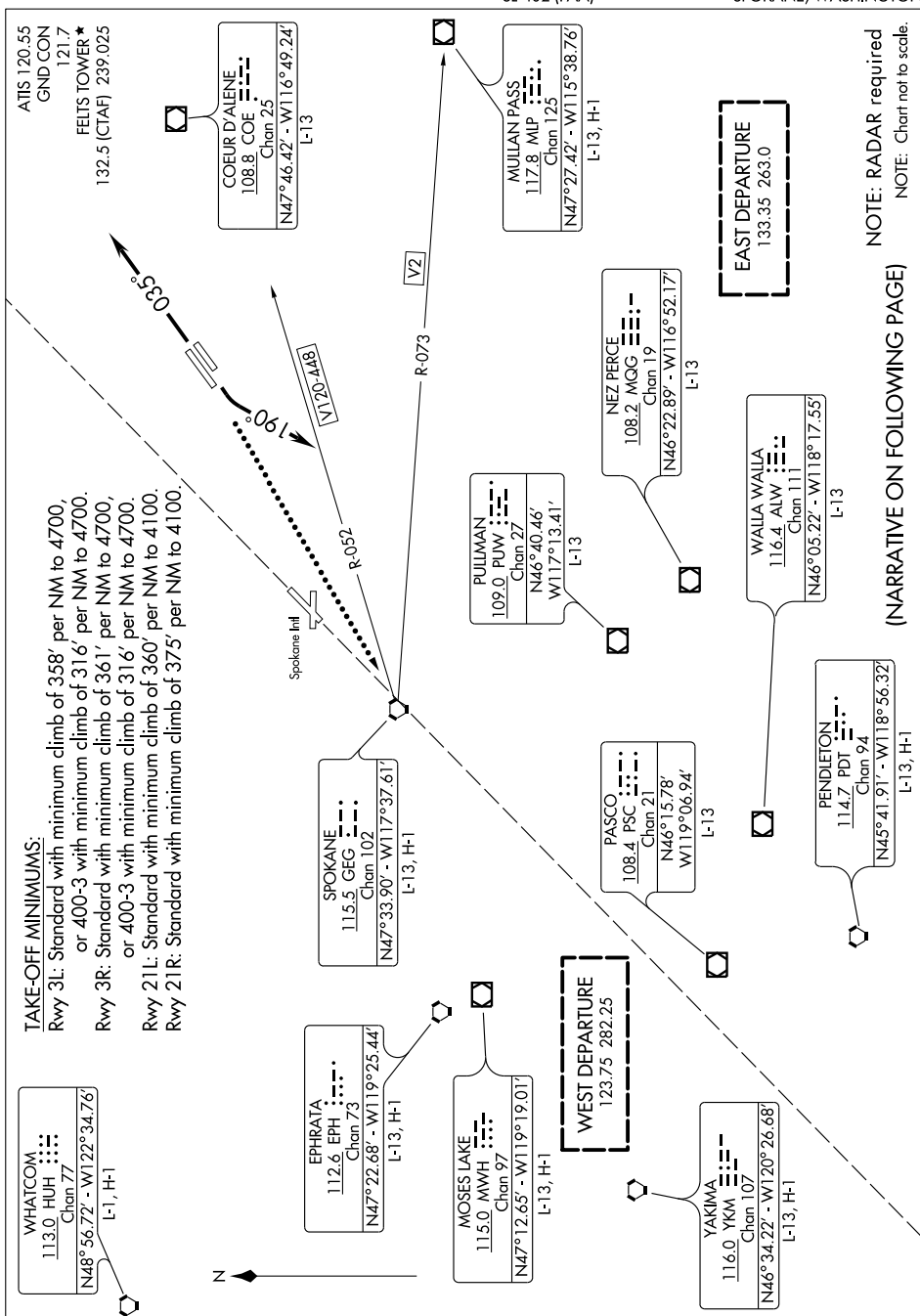
LOST COMMUNICATIONS: Climb direct GEG VORTAC before proceeding on course. Cross GEG VORTAC at or above: NE-bound V120-448 3900'; E-bound V2 4200'. Aircraft departing RWY 3, if not in contact with ATC within 10 NM after takeoff, turn left direct GEG VORTAC, cross GEG VORTAC at or above 4200', thence via assigned fix/route.

ZOOMR ONE ARRIVAL (ZOOMR.ZOOMR1)

SPOKANE, WASHINGTON









DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3L/R: Climb heading 035°, expect radar vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 21L/R: Turn left heading 190°, expect radar vectors to assigned airway/route. Thence....

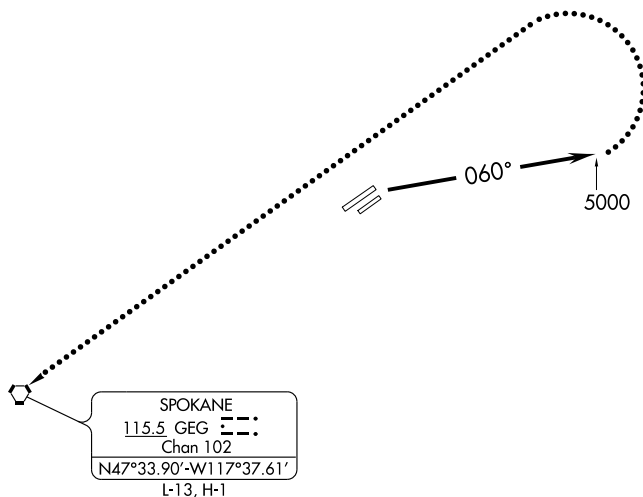
....maintain 12000' or assigned lower altitude, expect filed altitude/flight level 10 minutes after departure.

LOST COMMUNICATIONS: Climb direct GEG VORTAC before proceeding on course. Cross GEG VORTAC at or above: NE-bound V1 20-448 3900'; E-bound V2 4200'.

TAKE-OFF OBSTACLE NOTES

- Rwy 3L: Multiple trees beginning 5000' from DER, 530' left of centerline, up to 100' AGL/2295' MSL.
Multiple trees beginning 1854' from DER, 773' right of centerline, up to 100' AGL/2037' MSL.
- Rwy 3R: Multiple trees beginning 5016' from DER, 1033' left of centerline, up to 100' AGL/2295' MSL.
Multiple trees beginning 1870' from DER, 271' right of centerline, up to 100' AGL/2037' MSL.
Hangar 92' from DER, 341' right of centerline, 35' AGL/1967' MSL.
NDB 925' from DER, 270' right of centerline, 10' AGL/1987' MSL.
- Rwy 21L: Multiple trees beginning 926' from DER, 184' left of centerline, up to 100' AGL/2006' MSL.
Multiple bldgs and OL on bldg 316' from DER, 110' left of centerline, up to 35' AGL/1992' MSL.
Elevator 4080' from DER, 598' left of centerline, 50' AGL/2080' MSL.
- Rwy 21R: Multiple trees beginning 189' from DER, 404' right of centerline, up to 100' AGL/1979' MSL.
Multiple OL on bldgs and hangars 204' from DER, 230' left of centerline, up to 35' AGL/1973' MSL.
Elevator 2655' from DER, 1097' left of centerline, 50' AGL/2080' MSL.
Multiple poles and OL on poles 659' from DER, 2' left of centerline, up to 42' AGL/1982' MSL.
Multiple poles and OL on poles 1252' from DER, 13' right of centerline, up to 42' AGL/1982' MSL.

ATIS 120.55
 GND CON
 121.7
 FELTS TOWER ★
 132.5 (CTAF) 239.025
 SPOKANE DEP CON
 133.35 263.0



NOTE: This SID requires a minimum climb of 340' per NM to 5000' (850FPM/150K or 1133FPM/200K), or, 2600' ceiling and 2 miles visibility.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 3L/R: Climb via heading 060° until reaching 5000' for vector to (assigned route) or (fix).

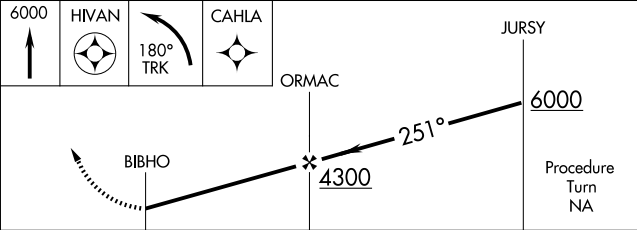
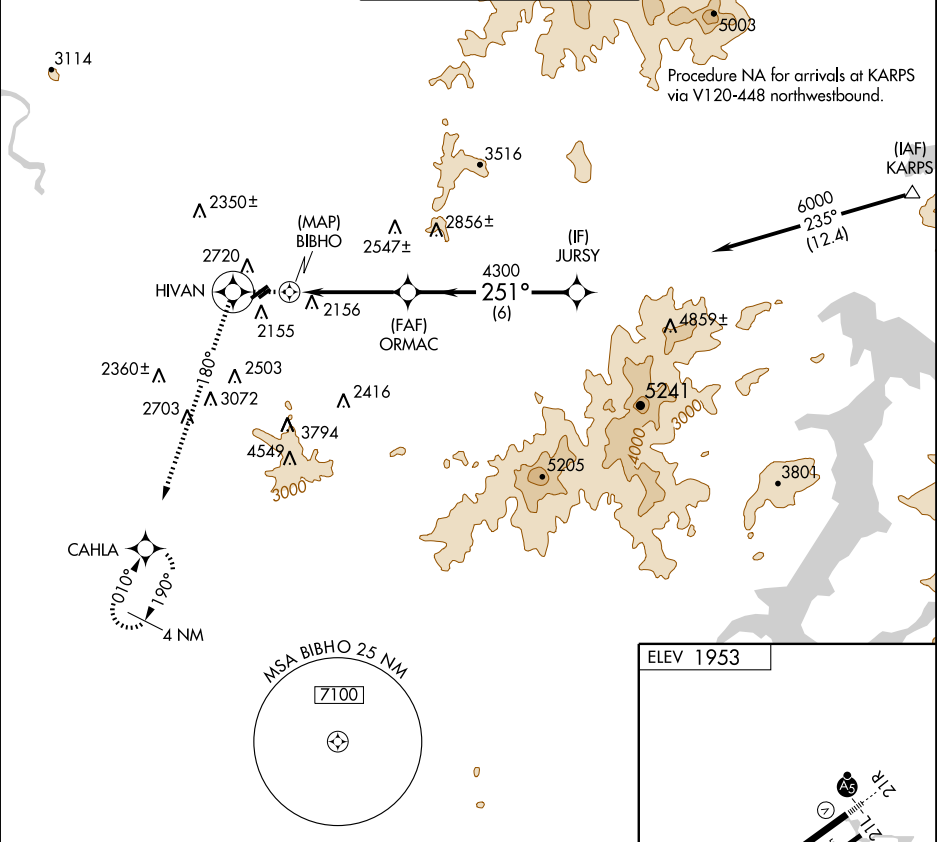
LOST COMMUNICATIONS: If not in contact with departure control after leaving 3000', continue climb to 5000' turn left proceed direct to GEG VORTAC and thence on course.

APP CRS	Rwy Idg	N/A
251°	TDZE	N/A
	Apt Elev	1953

RNAV (GPS)-A
SPOKANE / FELTS FIELD (SFF)

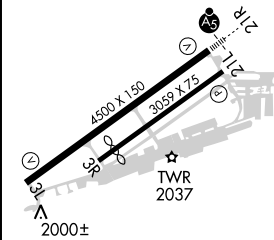
 	DME/DME RNP- 0.3 NA. Circling NA northwest of Rwy 3L-21R.	MISSED APPROACH: Climb to 6000 direct HIVAN and left turn via 180° track to CAHLA and hold.
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ATIS 120.55	SPOKANE APP CON 133.35 263.0	FELTS TOWER ★ 132.5 (CTAF) 239.025	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
CIRCLING	2880-1¼ 927 (1000-1¼)	2880-2¾ 927 (1000-2¾)	2880-3 927 (1000-3)	2880-3 927 (1000-3)

ELEV 1953



REIL Rwy 3L 0
MIRL Rwy 3L-21R

▼

▲

Circling NA northwest of Rwy 3L-21R.
Circling NA at night to Rwy 3R-21L.
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 7100 direct KIRRE and hold.

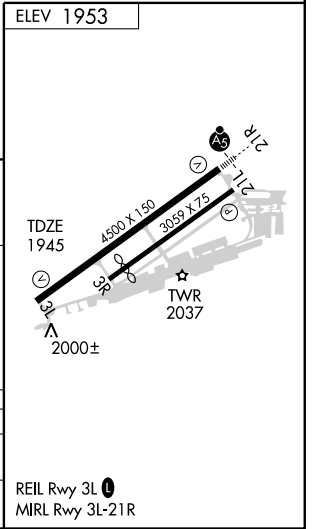
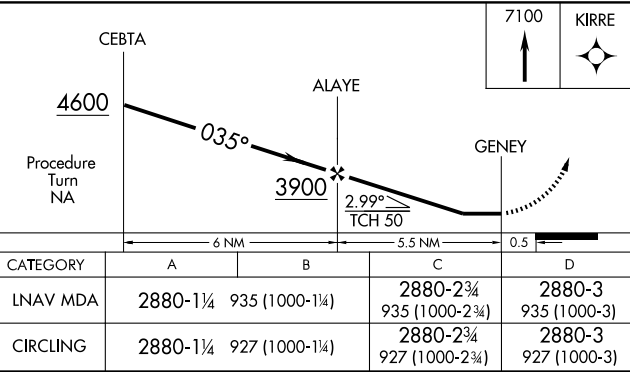
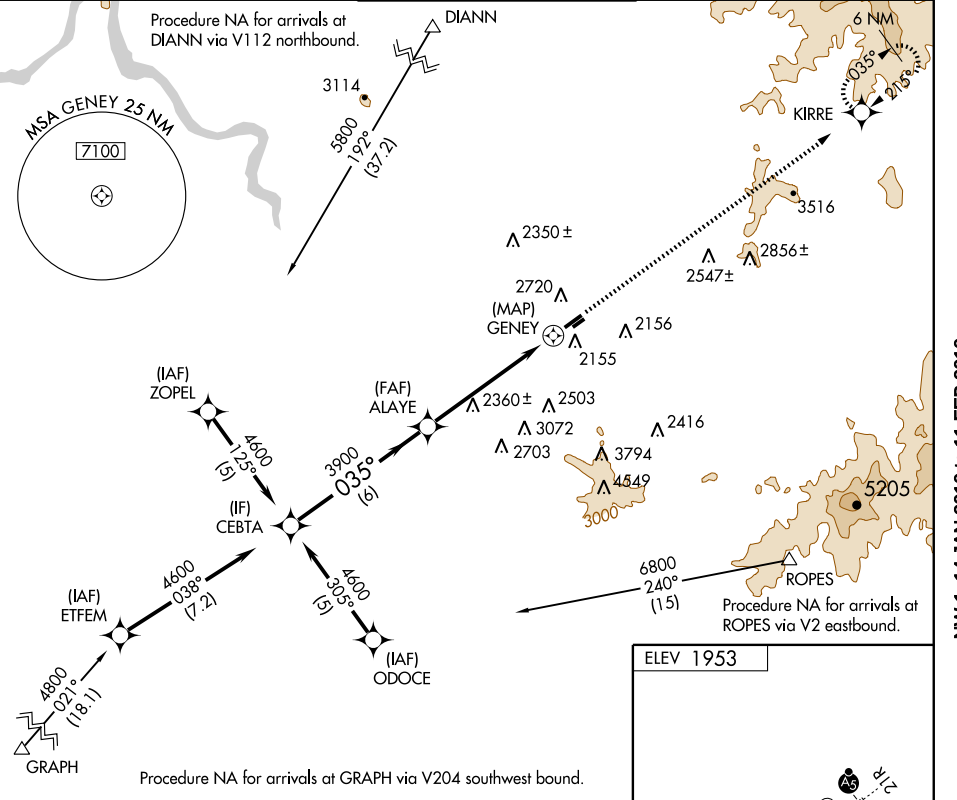
ATIS
120.55

SPOKANE APP CON
133.35 263.0

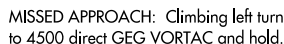
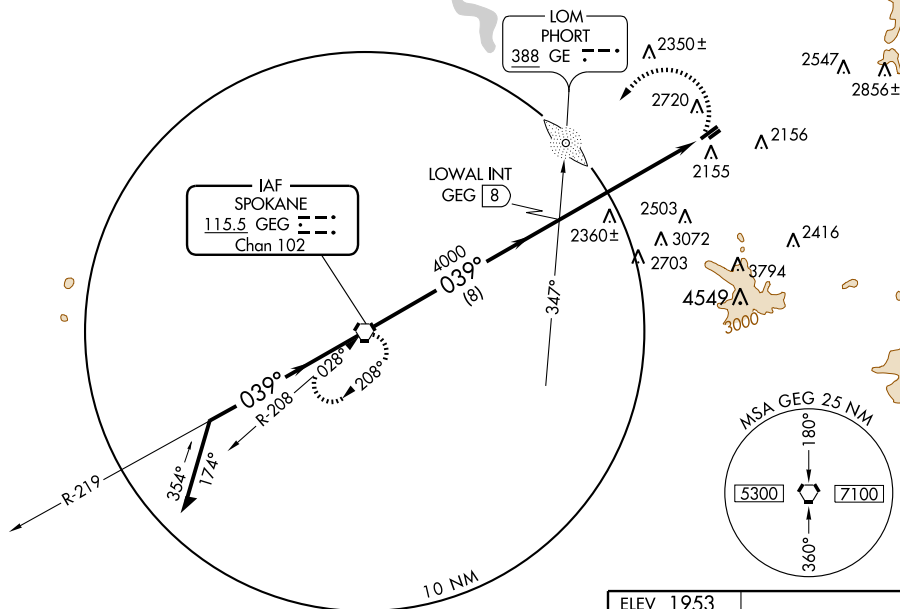
FELTS TOWER ★
132.5 (CTAF) 239.025

GND CON
121.7

UNICOM
122.95

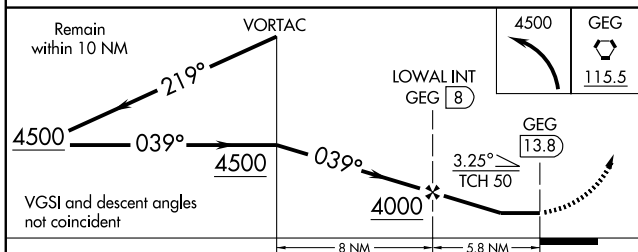


VOR RWY 3L
SPOKANE / FELTS FIELD (SFF)

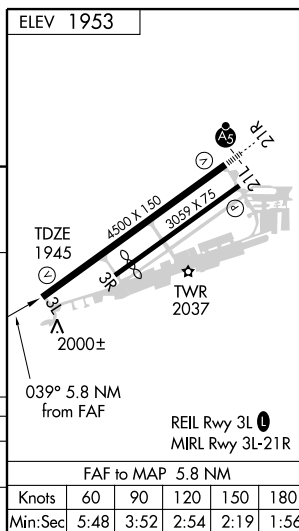
UNICOM
122.95

NW-1. 14 JAN 2010 to 11 FEB 2010

ADF or DME REQUIRED

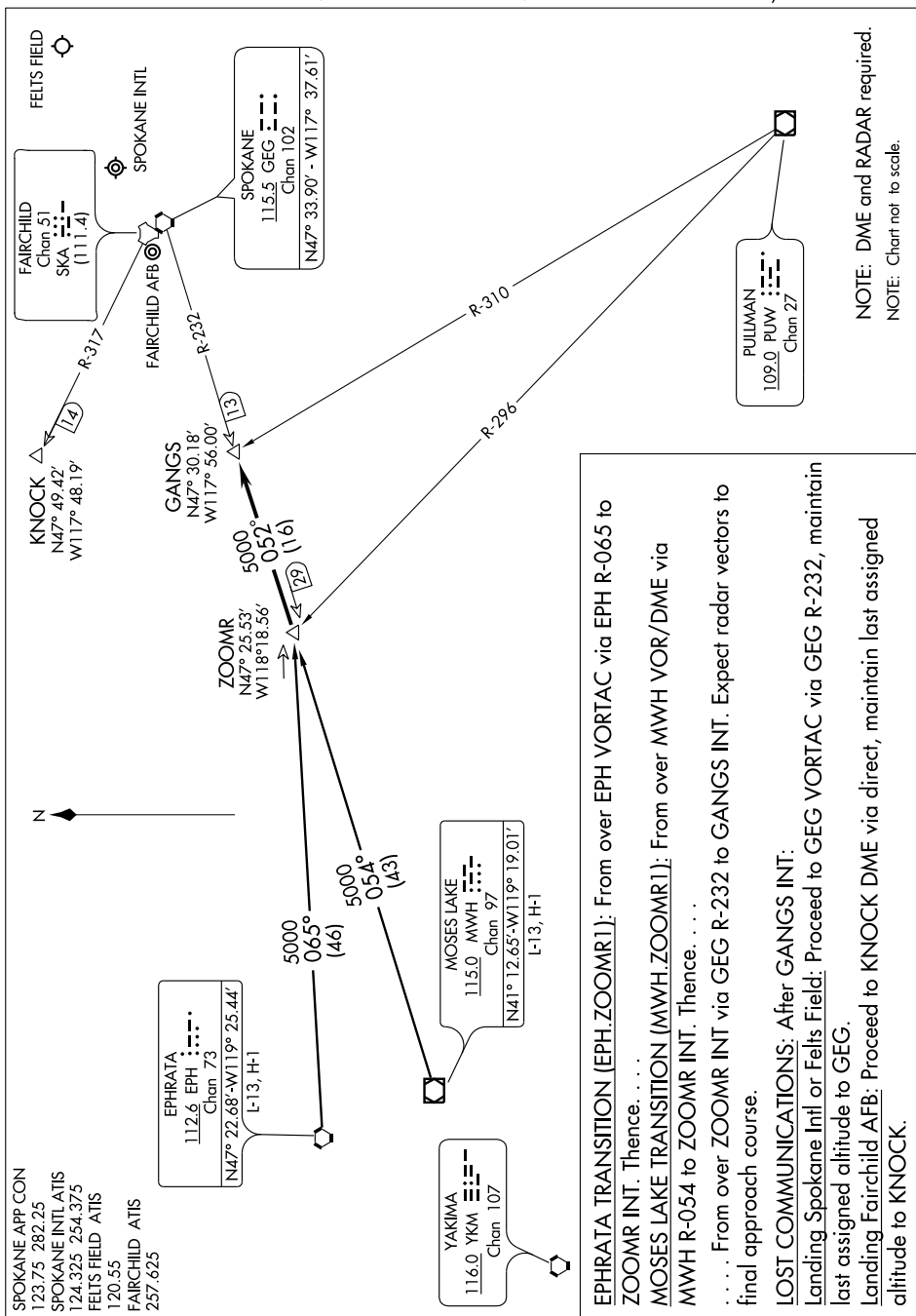


CATEGORY	A	B	C	D
S-3L	2920-1¼ 975 (1000-1¼)	2920-1½ 975 (1000-1½)	2920-3	975 (1000-3)
CIRCLING	2920-1¼ 967 (1000-1¼)	2920-1½ 967 (1000-1½)	2920-3	967 (1000-3)

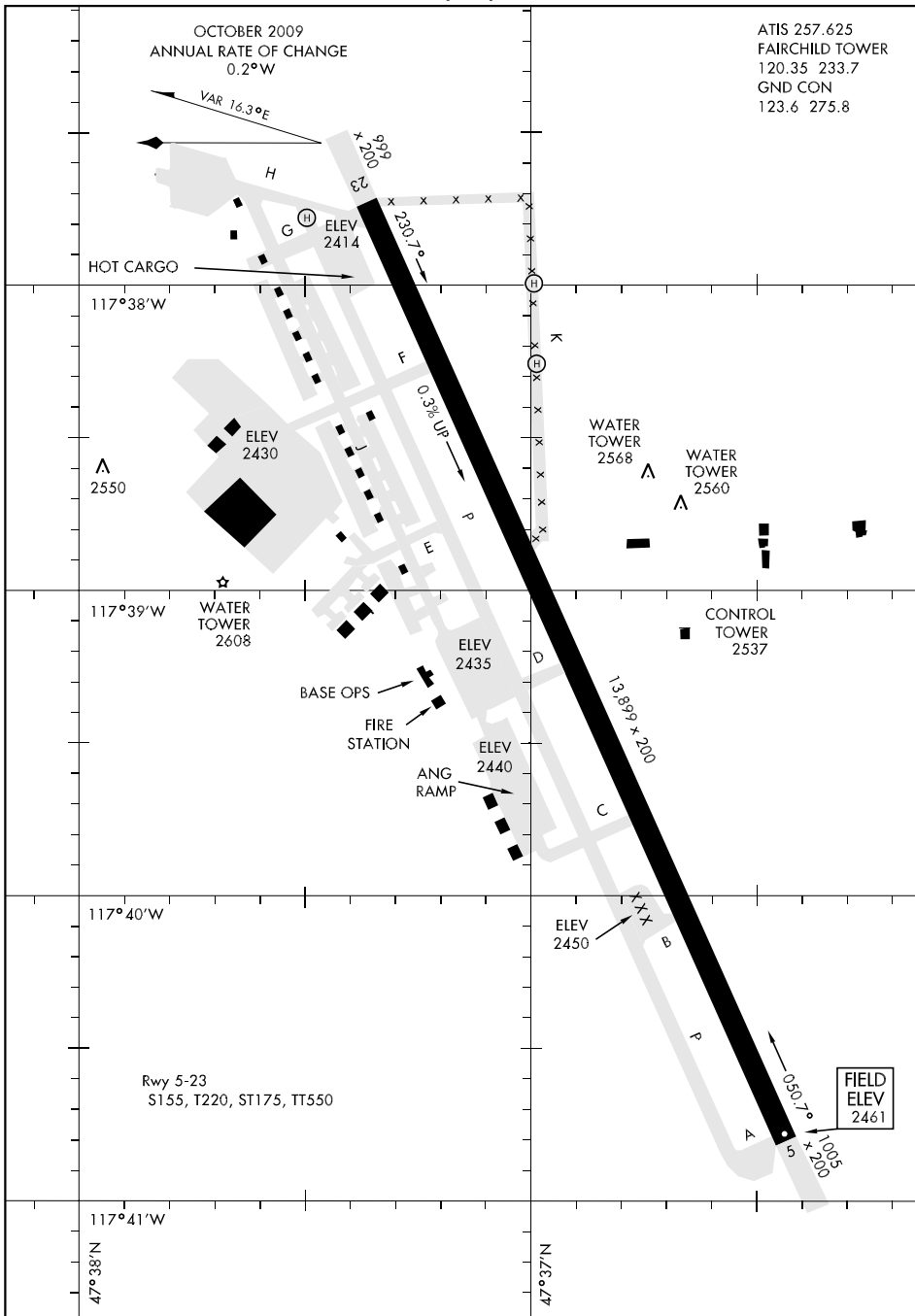


ZOOMR ONE ARRIVAL (ZOOMR.ZOOMR1)

SPOKANE, WASHINGTON



NW-1, 14 JAN 2010 to 11 FEB 2010



SPOKANE APP CON

133.35 263.0

SPOKANE INIT ATIS

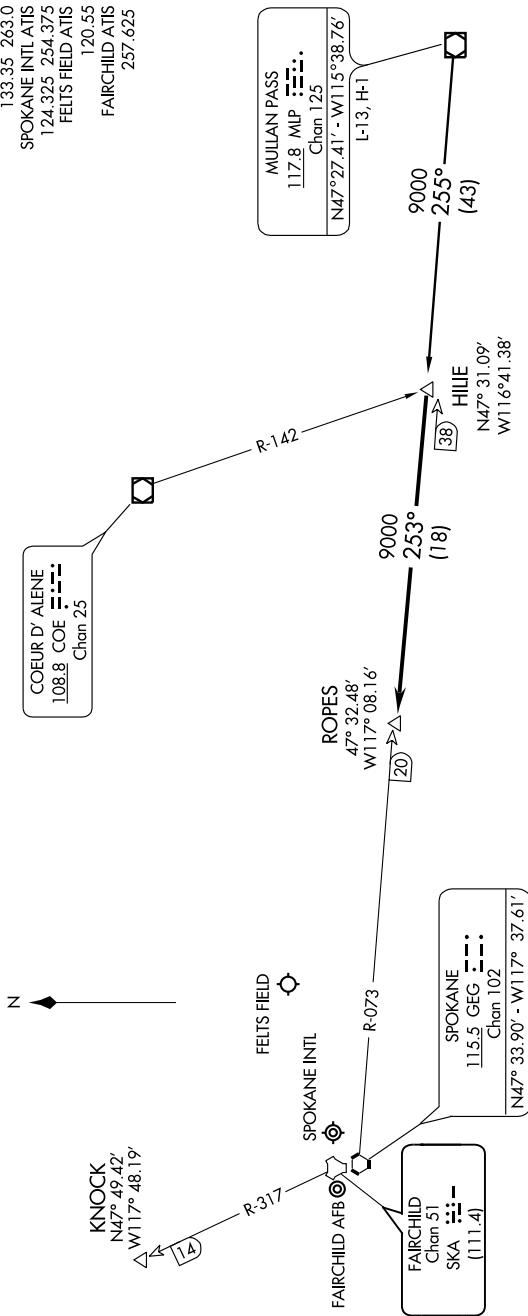
124.325 254.375

FELTS FIELD ATIS

120.55

FAIRCHILD ATIS

257.625



MULLAN PASS TRANSITION (MLP.HILIE1): From over MLP VOR/DME via MLP R-255 to HILIE INT. Thence. . .

. . . From over HILIE INT via GEG R-073 to ROPES INT. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: After ROPES INT:

Landing Spokane Intl or Felts Field: Proceed to GEG VORTAC via GEG R-073, maintain last altitude to GEG.

Landing Fairchild AFB: Proceed to KNOCK DME via direct, maintain last assigned altitude to KNOCK.

NOTE: DME and RADAR required.

NOTE: Chart not to scale.

LOC I-FRC 110.3	APCH CRS 048°	Rwy Idg 13,899 TDZE 2461 Arpt Elev 2461
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AL-553 [USAF]

FAIRCHILD AFB (KSKA)

▼ * When ALS inop, increase vis to ¾ mile, RVR to 40.
 When TDZL/CL lights inop, increase CAT ABCD RVR to 24.
 ** When ALS inop increase vis to 1 mile, RVR to 50.
 *** When ALS inop, increase CAT AB vis to 1 mile, RVR to 50,
 CAT CD vis to 1¼ miles, RVR to 60, CAT E vis to 1½ miles.



MISSED APPROACH: Climb to 6000 via SKA R-044.
 At SKA 2 DME turn left hdg 280° to intcp SKA R-317
 to KNOCK and hold, continue climb in hold to 6000.

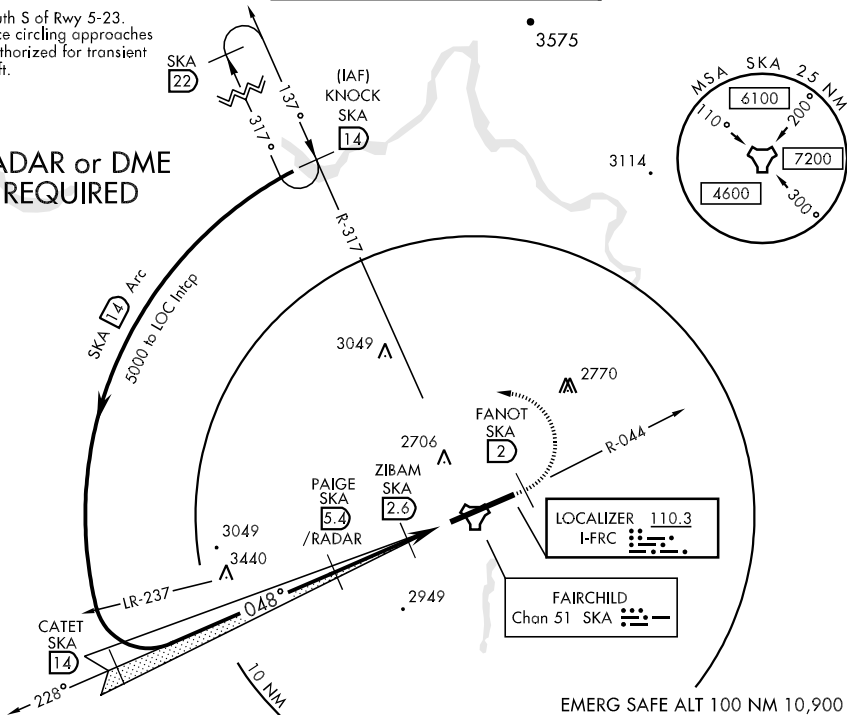
ATIS 257.625	SPOKANE APP CON 026°-204° 133.35 263.0 205°-025° 123.75 282.25
------------------------	--

FAIRCHILD TOWER
120.35 233.7

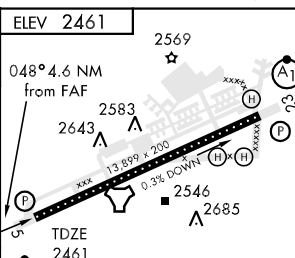
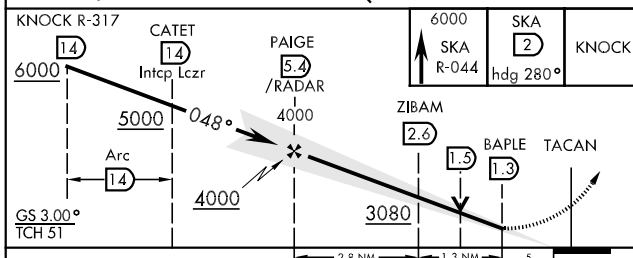
GND CON
123.6 275.8

† Not auth S of Rwy 5-23.
 Practice circling approaches
 not authorized for transient
 aircraft.

**RADAR or DME
REQUIRED**



EMERG SAFE ALT 100 NM 10,900



CATEGORY	A	B	C	D	E
S-ILS 5 *	2661/18 200 (200-½)				2661/24 200 (200-½)
S-LOC/ DME 5 **	2740/24 279 (300-½)	2740/40 279 (300-¾)			
S-LOC 5 ***	2880/24 419 (500-½)	2880/40 419 (500-¾)			
CIRCLING †	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3 1019 (1100-3)		

H1R Rwy 5-23					
TDZL/CL Rwy 5-23					
FAF to MAP 4.1 NM					
Knots	60	90	120	150	180
Min:Sec	4:06	2:44	2:03	1:38	1:22

LOC I-SKA
110.3

PCH CRS
228 °

Rwy Idg	13,899
TDZE	2422
Arpt Elev	2461

AL-553 [USAF]

FAIRCHILD AFB (KSKA)

T * When ALS inop, increase vis to $\frac{3}{4}$ mile, RVR to 40.
When TDZL/CL lights inop, increase CAT ABCD RVR to 24.
** When ALS inop, increase vis to 1 mile, RVR to 50.

ALSF-1

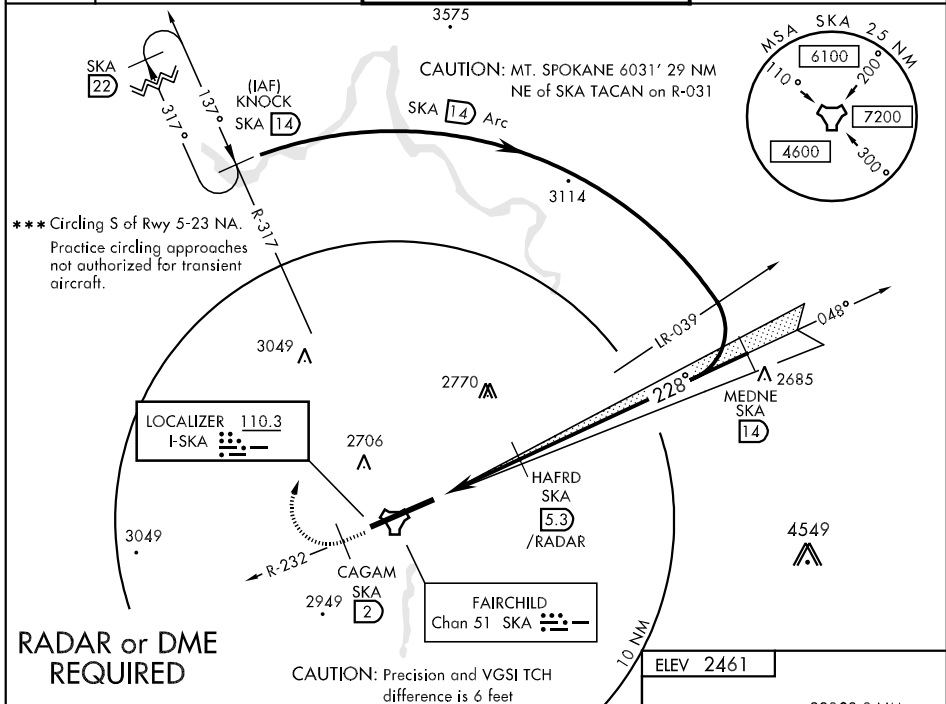
MISSED APPROACH: Climb to 6500 via SKA R-232. At SKA 2 DME, turn right heading 340° to intercept SKA R-317 to KNOCK and hold, continue climb in hold to 6500.

ATIS
257.625

SPOKANE APP CON			
026°-204°	133.35	263.0	
205°-025°	123.75	282.25	

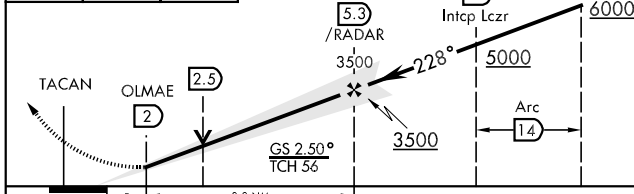
FAIRCHILD TOWER
120.35 233.7

GND CON
123.6 275.8



EMERG SAFE ALT 100 NM 10,900

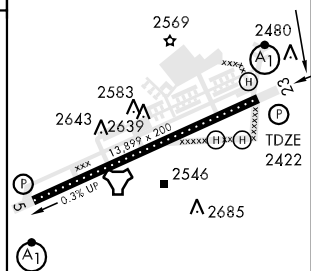
6500 ↑ SKA R-232	CAGAM SKA 2	hdg 340°
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CATEGORY	A	B	C	D	E
S-ILS 23 *	2622/18 200 (200-½)				2622/24 200(200-½)
S-LOC 23 **	2720/24 298 (300-½)		2720/40 298 (300-¾)		
CIRCLING ***	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3 1019 (1100-3)		

ELEV 2461

228°3.8 NM
from 5.3 DME/RADAR



HIRL Rwy 5-23
TDZL/CL Rwy 5-23

FAF to MAP 3.3 NM					
Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06

SPOKANE, WASHINGTON
Orig 09295

47°37'N-117°39'W

FAIRCHILD AFB (KSKA)

U.S. or LOC PW/V 23

AL-553 [USAF]

ALSF-1

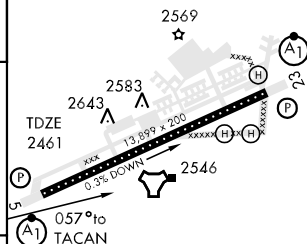
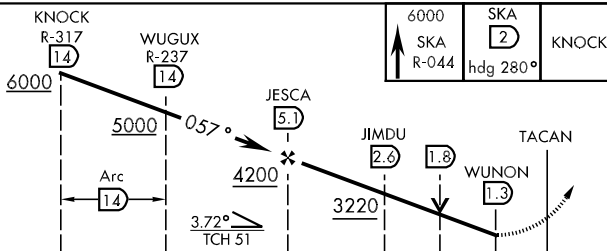
MISSED APPROACH: Climb to 6000 via SKA R-044. At SKA 2 DME turn left hdg 280° to intcp SKA R-317 to KNOCK and hold, continue climb in hold to 6000.

GND CON
123.6 275.8

FAIRCHILD
51 SKA

EMERG SAFE ALT 100 NM 10,900

ELEV 2461



CATEGORY		A	B	C	D	E
S-5 *		2820/24	359 (400-1/2)	2820/40	359 (400-3/4)	
CIRCLING **		3480-1 1/4 1019 (1100-1 1/4)	3480-1 1/2 1019 (1100-1 1/2)	3480-3	1019 (1100-3)	

HIRL Rwy 5-23
TDZL/CL Rwy 5-23

TACAN SKA Chan 51	APCH CRS 226°	Rwy Idg 13,899 TDZE 2422 Arpt Elev 2461
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AL-553 [USAF]

FAIRCHILD AFB (KSKA)

T * When ALS inop, increase CAT AB vis to 1 mile, RVR to 50
CAT CD vis to 1¼ mile, RVR to 60, CAT E vis to 1½ miles.
** Not auth S of Rwy 5-23. Practice circling approaches not
authorized for transient aircraft.

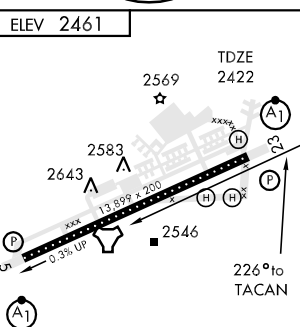
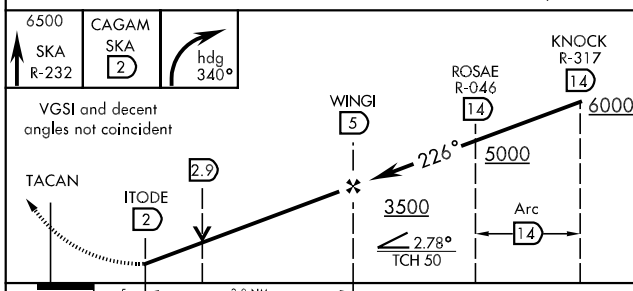
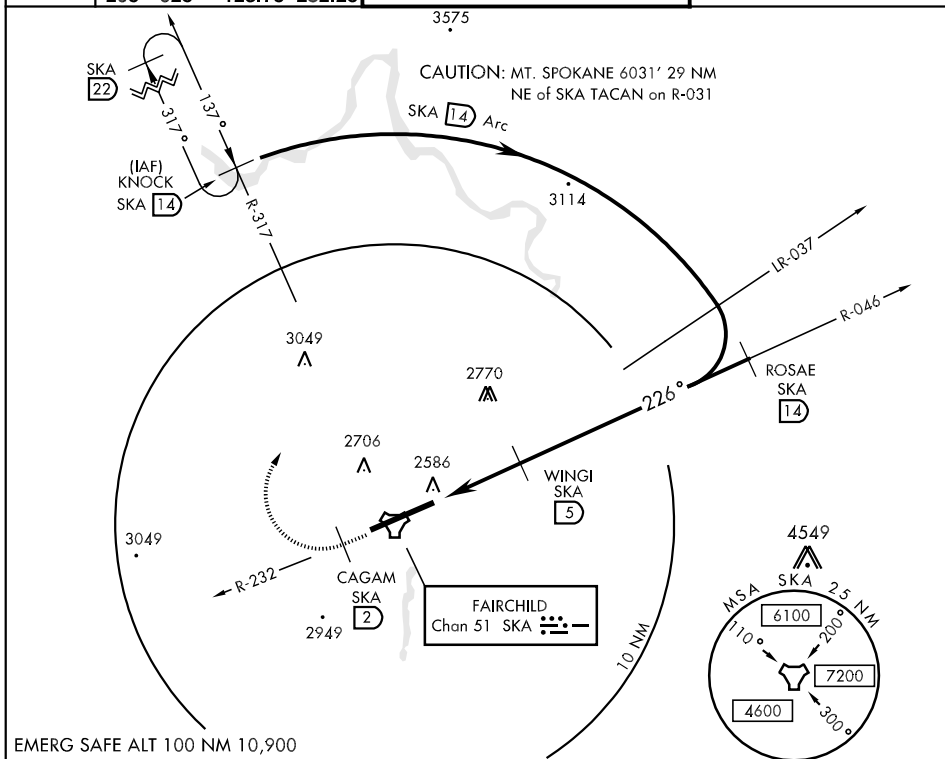
ALSF-1

MISSED APPROACH: Climb to 6500 via SKA R-232. At SKA 2 DME, turn right heading 340° to intcp SKA R-317 to KNOCK and hold, continue climb in hold to 6500.

ATIS	SPOKANE APP CON		
257.625	026°-204°	133.35	263.0
	205°-025°	123.75	282.25

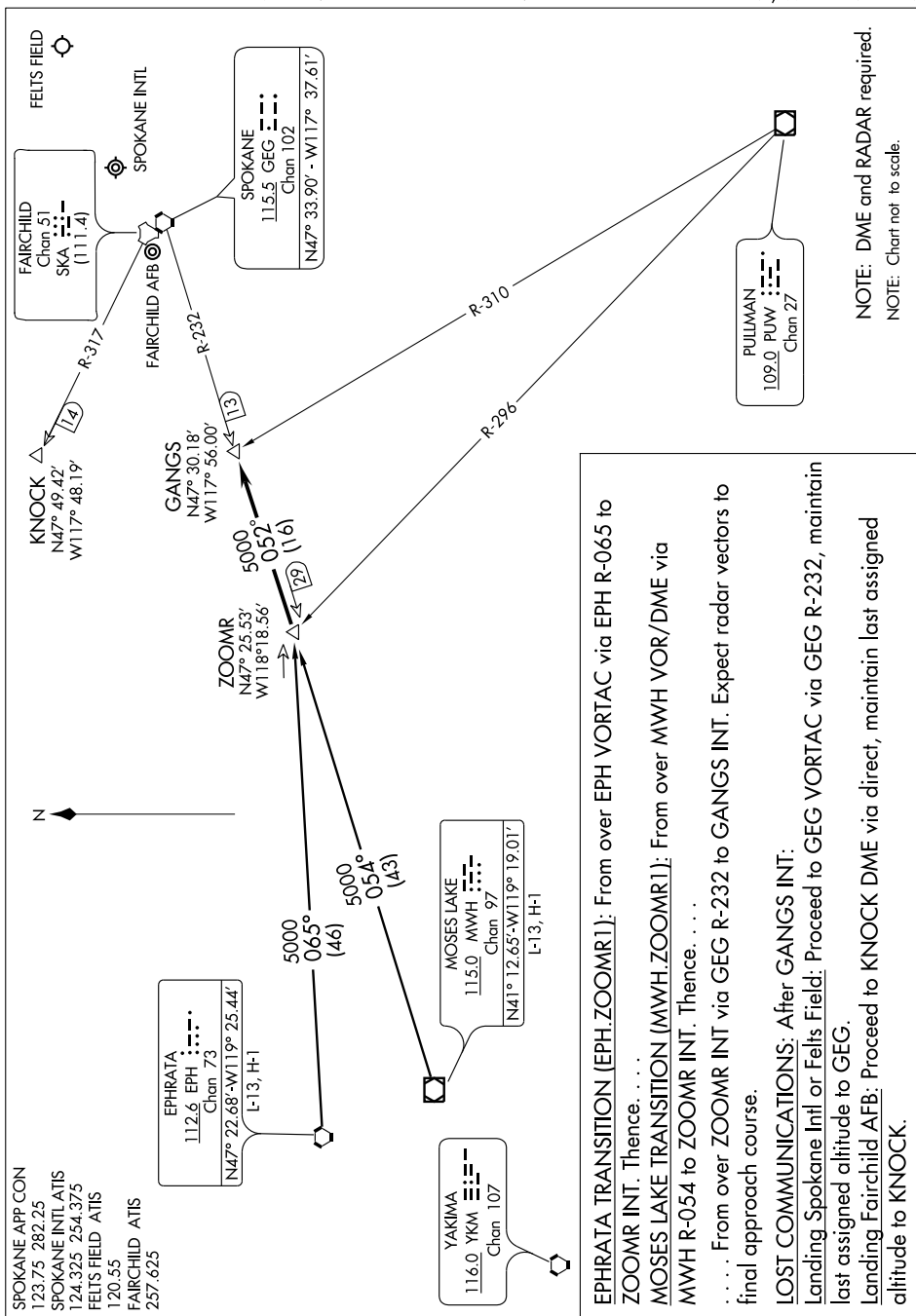
FAIRCHILD TOWER
120.35 233.7

GND CON	
123.6	275.8



CATEGORY	A	B	C	D	E
S-TAC 23 *	2840/24 418 (400-½)		2840/40 418 (400-¾)		2840/50 418 (400-1)
CIRCLING **	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3 1019 (1100-3)		

HIRL Rwy 5-23
TDZL/CL Rwy 5-23



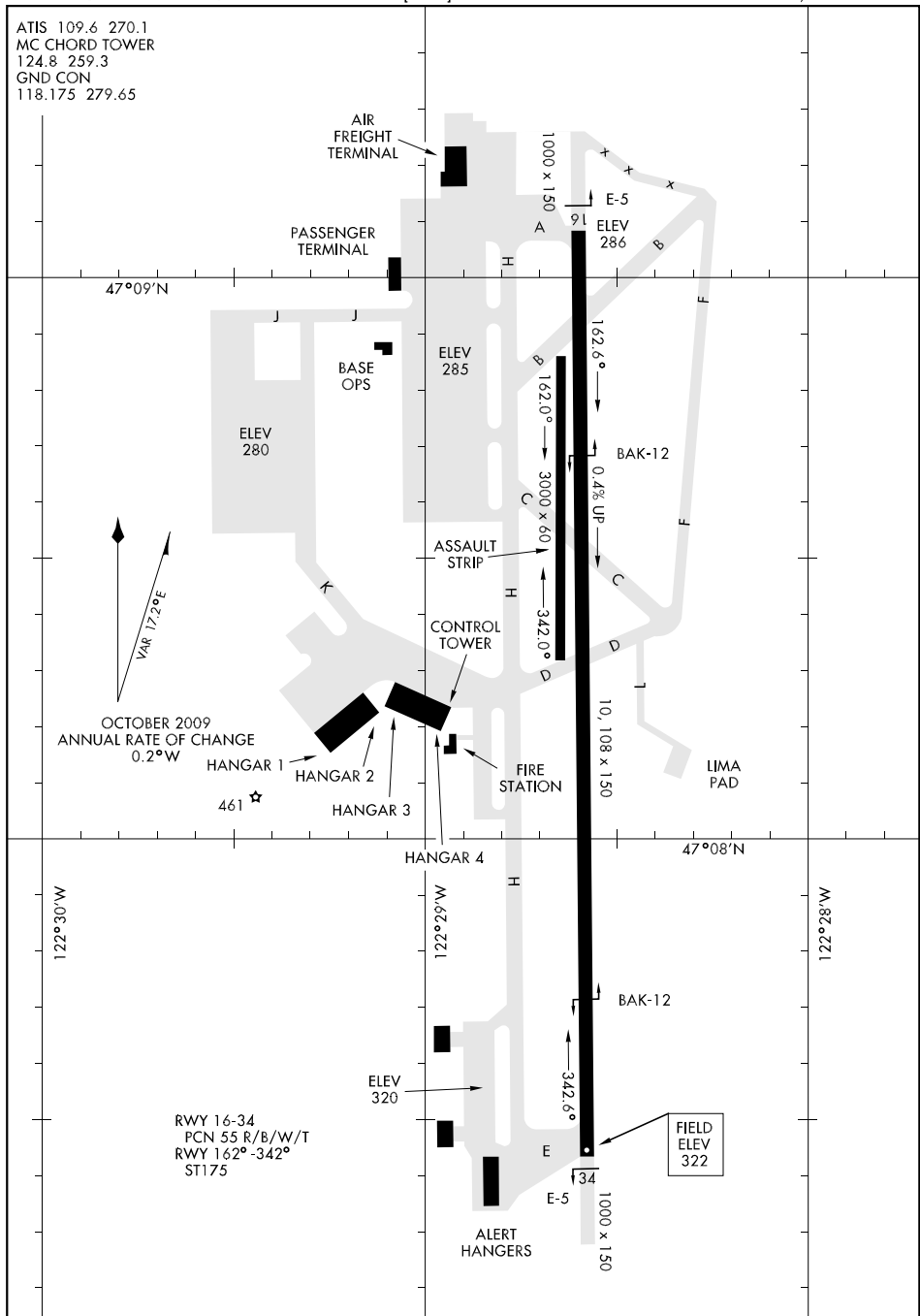
AIRPORT DIAGRAM

[USAF] AFD-414

TACOMA, WASHINGTON

ATIS 109.6 270.1
MC CHORD TOWER
124.8 259.3
GND CON
118.175 279.65

NW-1, 14 JAN 2010 to 11 FEB 2010



AIRPORT DIAGRAM

TACOMA, WASHINGTON

ALDER-NINE DEPARTURE (ALDER9 • ALDER)

MC CHORD VORTAC (R-151)
TACOMA, WASHINGTON

ATIS
109.6 270.1
GND CON
118.175 279.65
MC CHORD TOWER
124.8 259.3
SEATTLE DEP CON
126.5 391.9

SL-414 [USAF]

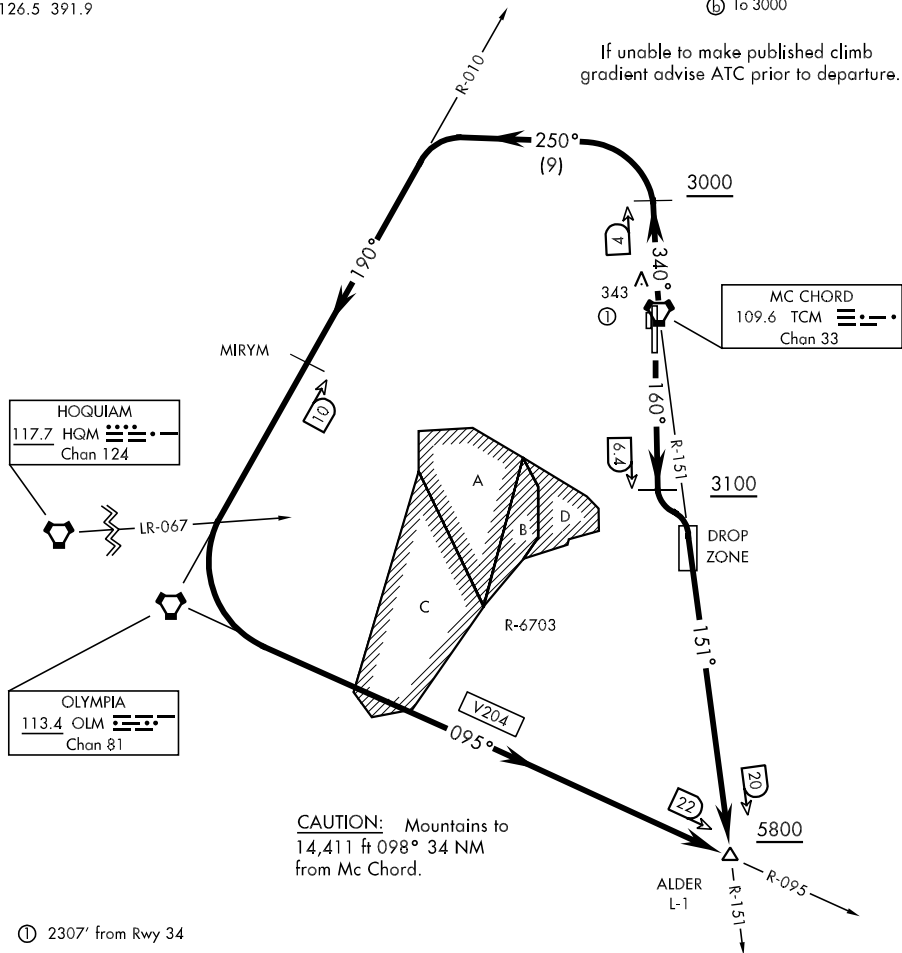
Rwy	Knots	60	120	180	240
16 (A) V/V(fpm)		560	1120	1680	2240
34 (B) V/V(fpm)		730	1450	2180	2890

ATC Climb Rate

(A) To 3100

(B) To 3000

If unable to make published climb gradient advise ATC prior to departure.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Track heading 160° to TCM VORTAC 6.4 DME, then turn left to intercept the TCM R-151 to ALDER. Cross TCM 6.4 DME at or above 3100, cross ALDER at or above 5800.

TAKE-OFF RWY 34: Climb on track 340° to TCM VORTAC 4 DME. Cross TCM 4 DME at or above 3000, then turn left heading 250° to intercept OLM VORTAC R-010/10 DME (MIRYM) to OLM VORTAC. Then via V204 (OLM R-095) to ALDER. Cross ALDER at or above 5800.

ARRIE FIVE ARRIVAL

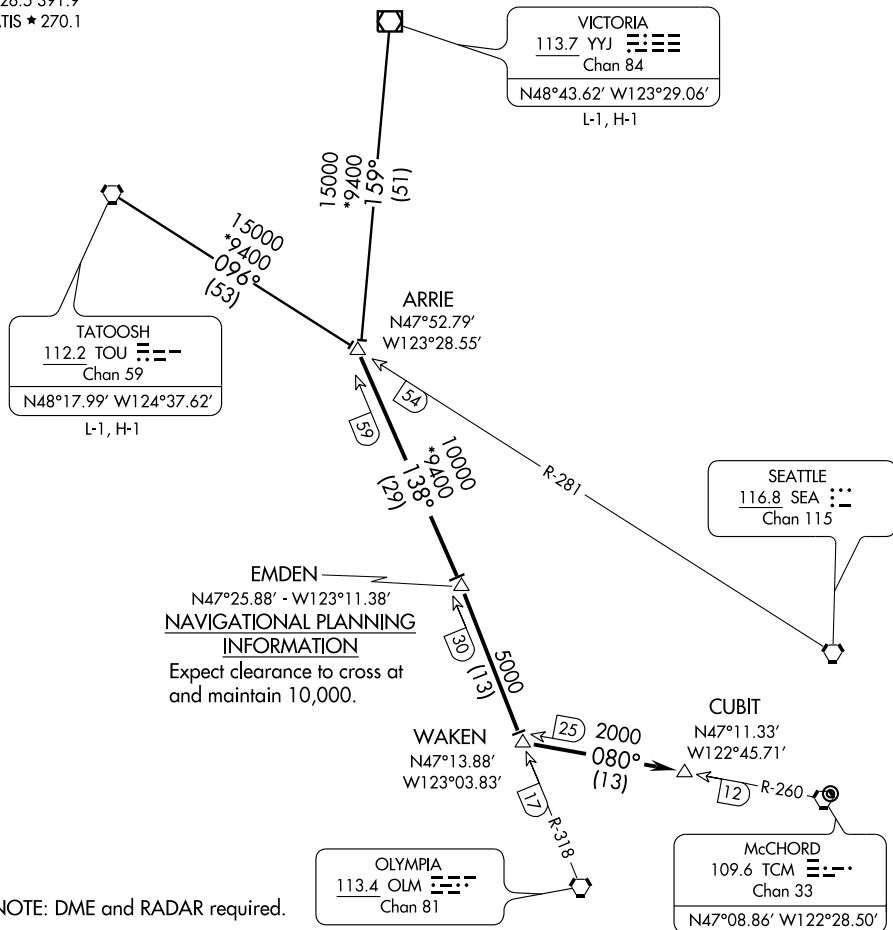
ST-414 (FAA)

McCHORD AFB
TACOMA, WASHINGTON

SEATTLE APP CON

126.5 391.9

ATIS ★ 270.1





LOC I-MAR 109.9	APCH CRS 160°	Rwy Idg 10,108 TDZE 286 Arpt Elev 322
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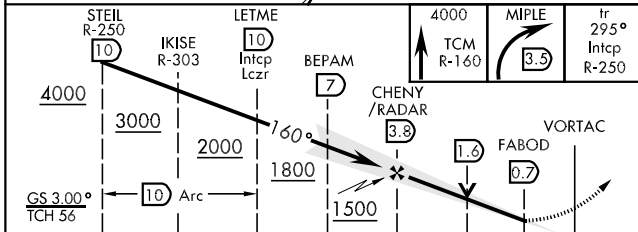
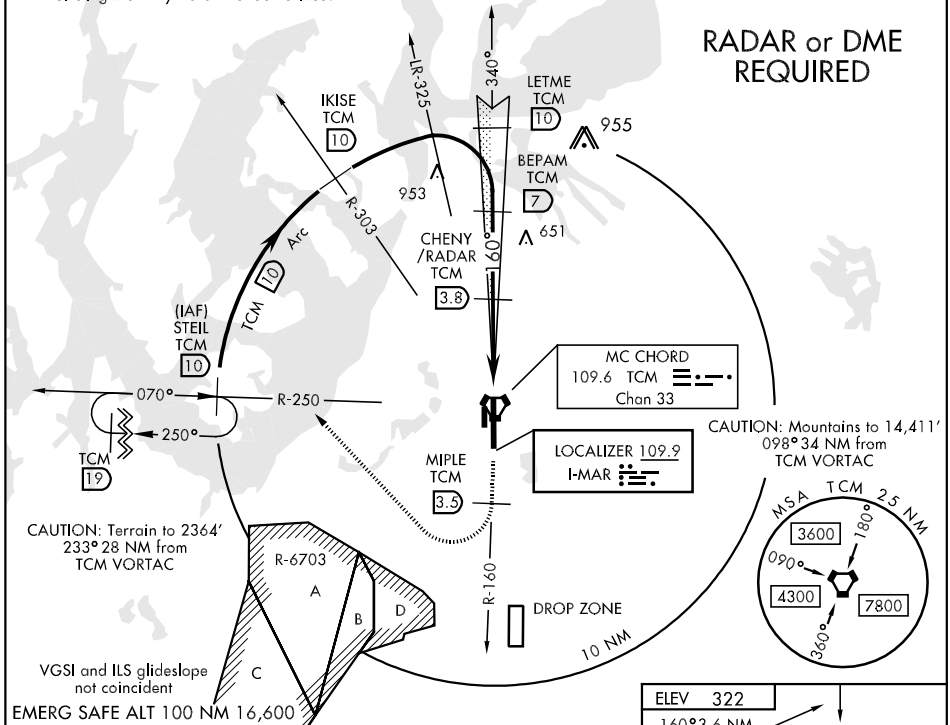
AL-414 [USAF]

MC CHORD AFB (KTCM)

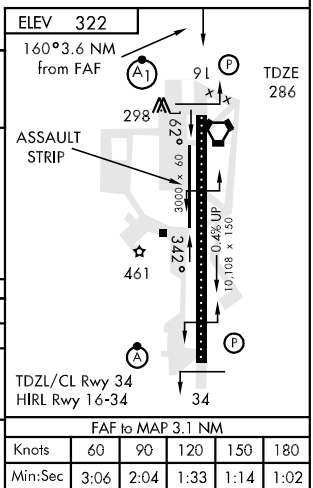
▼ ** When ALS inop, increase vis to $\frac{3}{4}$ mile, RVR to 40.
 ** When ALS inop, increase CAT AB RVR to 50, vis to 1 mile, CAT C vis to $1\frac{1}{2}$ miles, CAT DE vis to $1\frac{3}{4}$ miles.

ATIS 109.6 270.1	SEATTLE APP CON 126.5 391.9	MC CHORD TOWER 124.8 259.3	GND CON 118.175 279.65
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*** Circling E of Rwy 16-34 not authorized.



CATEGORY	A	B	C	D	E
S-ILS 16*	486/18	200 (200- $\frac{1}{2}$)	486/24	200 (200- $\frac{1}{2}$)	
S-LOC 16**	800/40	514 (500- $\frac{3}{4}$)	800/50 514 (500-1)	800/60	514 (500- $1\frac{1}{4}$)
CIRCLING***	940-1	618 (700-1)	940-1 $\frac{3}{4}$ 618 (700-1 $\frac{3}{4}$)	940-2 618 (700-2)	940-2 $\frac{1}{4}$ 618 (700-2 $\frac{1}{4}$)



LOC I-TCM 108.5	APCH CRS 340°	Rwy Idg 10,108 TDZE 322 Arpt Elev 322
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AL-414 [USAF]

MC CHORD AFB (KTCM)

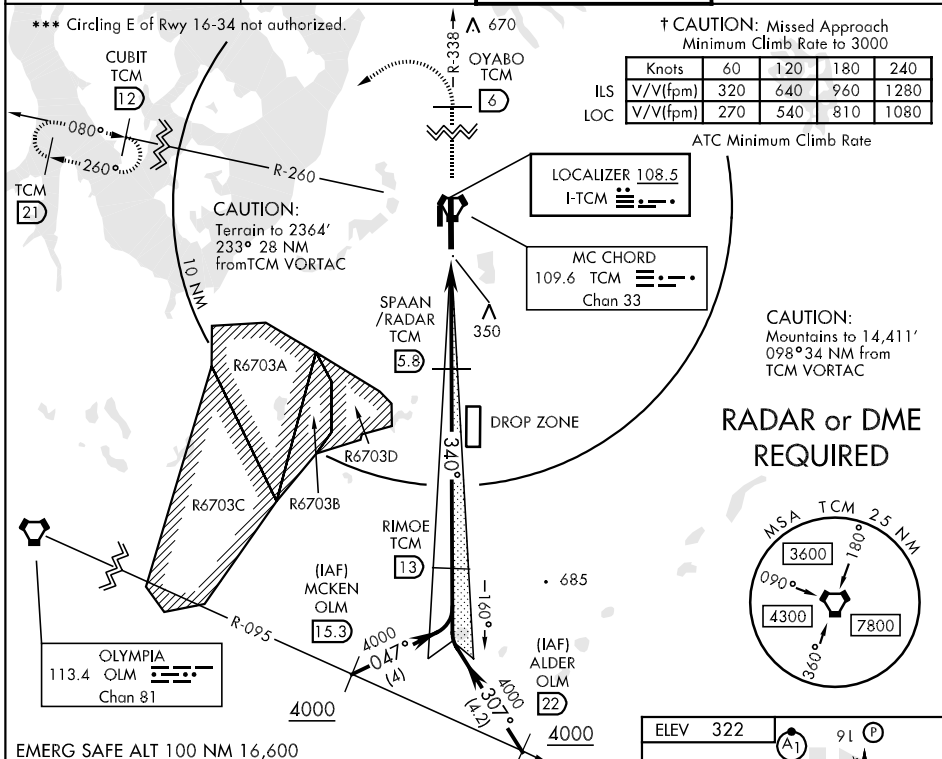
▼ * When ALS inop, increase vis $\frac{3}{4}$ mile, RVR to 40.
 ** When ALS inop, increase CAT AB vis to 1 mile,
 RVR to 50, CAT C vis to $1\frac{1}{2}$ miles, CAT D vis to
 $1\frac{3}{4}$ miles.

ALSF-2



† MISSED APPROACH: Climb to 4000 on TCM VORTAC R-338
 to OYABO, then turn left via 215° course to intercept TCM
 R-260 to CUBIT and hold, continue climb in hold to 4000.
 Cross OYABO at or above 3000.

ATIS 109.6 270.1	SEATTLE APP CON 126.5 391.9	MC CHORD TOWER 124.8 259.3	GND CON 118.175 279.65
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4000

TCM R-338

OYABO

tr 215°

TCM R-260 CUBIT

VORTAC

GUTBE

SPAAN /RADAR

RIMOE

4000

340°

1800

GS 3.00°

TCH 58

0.5

3.9 NM

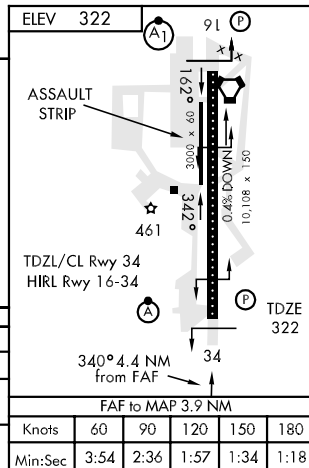
1.9

3.1

5.8

13

CATEGORY	A	B	C	D
S-ILS 34 *	522/18	200 (200-½)	522/24	200 (200-½)
S-LOC 34 **	900/24	578 (600-½)	900/50 578 (600-1)	900/60 578 (600-1¼)
CIRCLING ***	940-1	618 (700-1)	940-1¾ 618 (700-1¾)	940-2 618 (700-2)



LOC I-TCM 108.5	APCH CRS 340°	Rwy Idg 10,108 TDZE 322 Arpt Elev 322
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AL-414 [USAF]

MC CHORD AFB (KTCM)

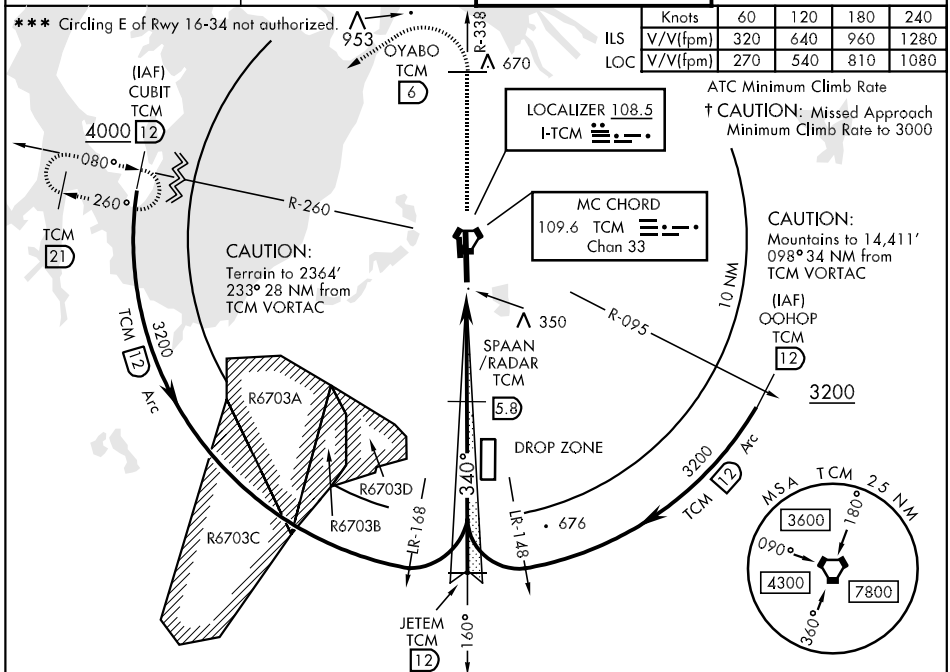
▼ * When ALS inop, increase vis $\frac{3}{4}$ mile, RVR to 40.
 ** When ALS inop, increase CAT AB vis to 1 mile, RVR to 50, CAT C vis to $1\frac{1}{2}$ miles, CAT D vis to $1\frac{3}{4}$ miles.



† MISSED APPROACH: Climb to 4000 on TCM VORTAC R-338 to OYABO, then turn left via 215° course to intercept TCM R-260 to CUBIT and hold, continue climb in hold to 4000. Cross OYABO at or above 3000.

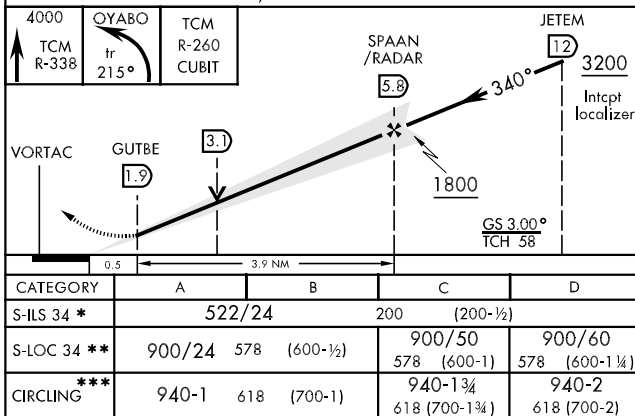
ATIS 109.6 270.1	SEATTLE APP CON 126.5 391.9	MC CHORD TOWER 124.8 259.3	GND CON 118.175 279.65
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*** Circling E of Rwy 16-34 not authorized.

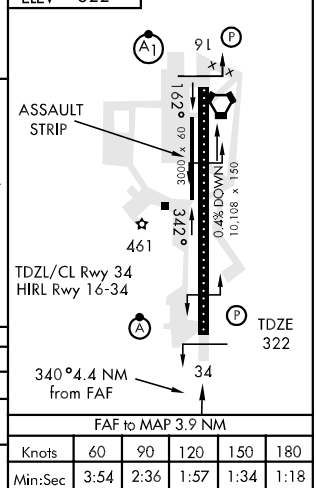


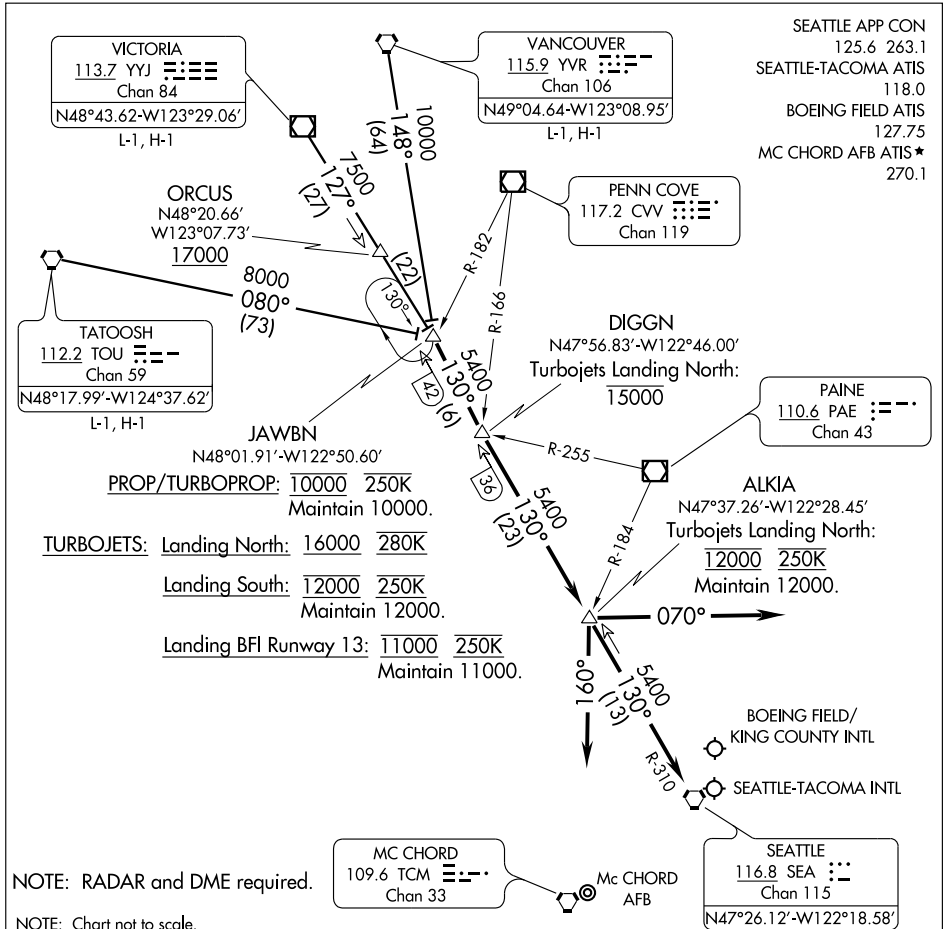
RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 16,600



ELEV 322





TATOOSH TRANSITION (TOU.JAWBN1): From over TOU VORTAC via TOU R-080 to JAWBN INT. Thence....

VANCOUVER TRANSITION (YVR.JAWBN1): From over YVR VORTAC via YVR R-148 to JAWBN INT. Thence....

VICTORIA TRANSITION (YYJ.JAWBN1): From over YYJ VOR/DME via YYJ R-127 to JAWBN INT. Thence....

....From over JAWBN INT/SEA 42 DME via SEA R-310 to DIGGN/SEA 36 DME then via SEA R-310 to ALKIA INT/SEA 13 DME, thence....

LANDING NORTH: Depart ALKIA INT heading 160° for vectors to final approach course.

LANDING SOUTH: Depart ALKIA INT heading 070° for vectors to final approach course.

LANDING McCHORD AFB: After ALKIA INT proceed direct SEA VORTAC.

LOST COMMUNICATIONS: After ALKIA INT proceed direct SEA VORTAC.

OLYMPIC-THREE DEPARTURE

SL-414 [USAF]

TACOMA, WASHINGTON

ATIS
109.6 270.1
GND CON
118.175 279.65
MC CHORD TOWER
124.8 259.3
SEATTLE DEP CON
126.5 391.9

If unable to make published
climb gradient advise ATC
prior to departure.

Rwy	Knots	60	120	180	240
16 (A) V/V(fpm)		320	640	960	1280
34 (B) V/V(fpm)		650	1300	1950	2600

ATC Climb Rate

(A) To 10 DME

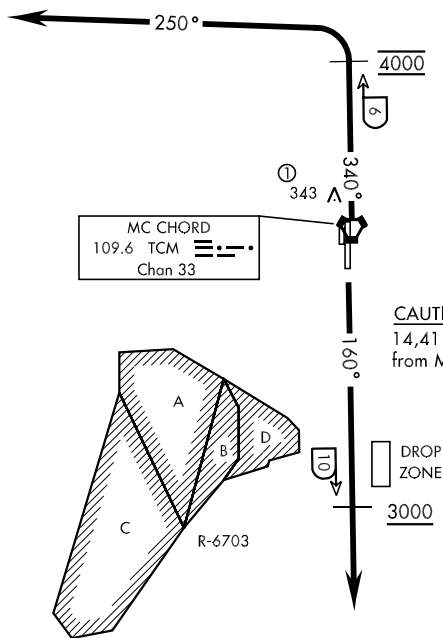
(B) To 6 DME

RADAR REQUIRED

Maximum 250 KIAS

SEATTLE
116.8 SEA
Chan 115

L-1



CAUTION: Mountains to
14,411 ft 098° 34 NM
from Mc Chord.

(1) 2270' from Rwy 34

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Climb on a track of 160°. Cross TCM VORTAC 10 DME at or above 3000. Maintain (assigned altitude). Expect radar vectors within TCM 8 DME after departure.

TAKE-OFF RWY 34: Climb on a track of 340° to TCM VORTAC 6 DME. Cross TCM 6 DME at 4000. Then turn left tracking 250°. Maintain (assigned altitude). Expect radar vectors.

NW-1, 14 JAN 2010 to 11 FEB 2010

PUGET-FIVE DEPARTURE

SL-414 [USAF]

TACOMA, WASHINGTON

ATIS
109.6 270.1
GND CON
118.175 279.65
MC CHORD TOWER
124.8 259.3
SEATTLE DEP CON
126.5 391.9

If unable to make published
climb gradient advise ATC
prior to departure.

Rwy	Knots	60	120	180	240
16	⊙ V/V(fpm)	320	640	960	1280

ATC Climb Rate

⊙ To 10 DME

RADAR REQUIRED

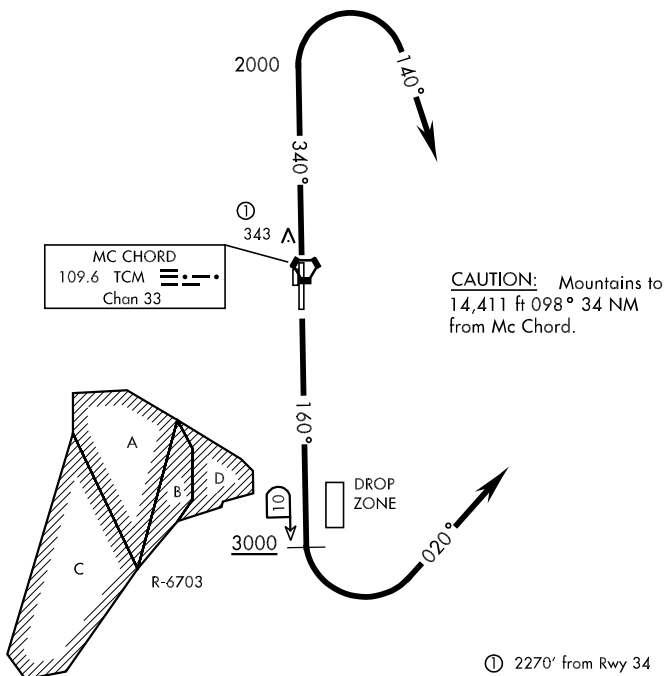
Maximum 250 KIAS

Radar vectors required within 10 NM after departure



SEATTLE
116.8 SEA
Chan 115

L-1



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Climb on a track of 160° to TCM VORTAC 10 DME, then turn left tracking 020°. Cross TCM 10 DME at or above 3000. Maintain (assigned altitude). Expect radar vectors.

TAKE-OFF RWY 34: Climb on a track of 340° to 2000. Then turn right, tracking 140°. Maintain (assigned altitude). Expect radar vectors.

TACAN TCM
Chan **33**

APCH CRS
153°

Rwy ldg **10,108**
TDZE **286**
Arpt Elev **322**

AL-414 [USAF]

MC CHORD AFB (KTCM)

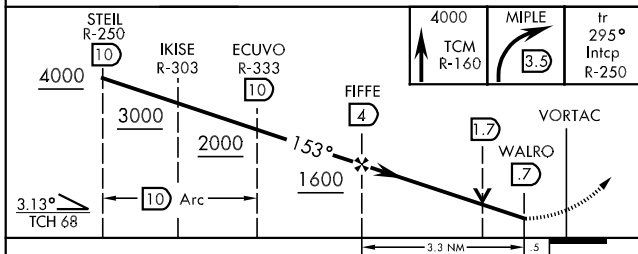
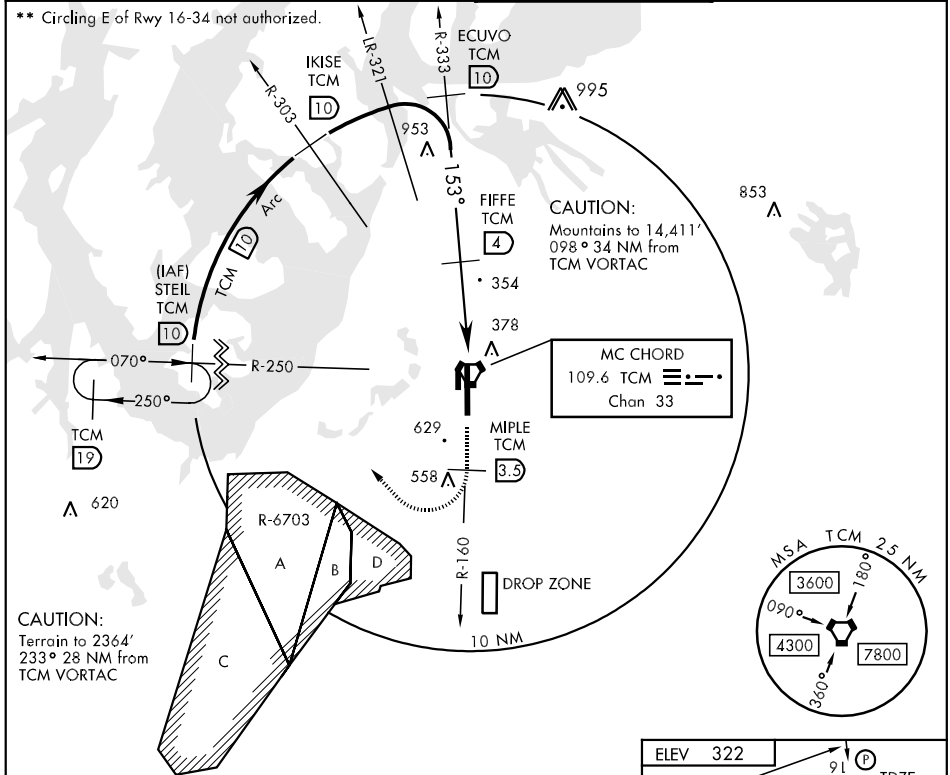
▼ * When ALS inop, increase CAT AB vis to 1 mile,
RVR to 50, CAT C vis to 1½ miles, CAT DE vis
to 1¾ miles.



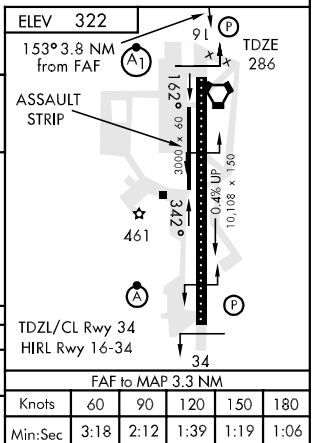
MISSED APPROACH: Climb to 4000 on TCM VORTAC R-160.
At TCM 3.5 DME turn right via 295° course to intercept TCM
R-250 to STEIL and hold, continue climb in hold to 4000.

ATIS 109.6 270.1	SEATTLE APP CON 126.5 391.9	MC CHORD TOWER 124.8 259.3	GND CON 118.175 279.65
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** Circling E of Rwy 16-34 not authorized.



CATEGORY	A	B	C	D	E
S-16 *	800/40	514 (500-¾)	800/50 514 (500-1)	800/60	514 (500-1½)
CIRCLING **	940-1	618 (700-1)	940-1¾ 618(700-1¾)	940-2 618 (700-2)	940-2 ¼ 618(700-2 ¼)



WHYTE FOUR ARRIVAL

ST-414 (FAA)

McCHORD AFB
TACOMA, WASHINGTON

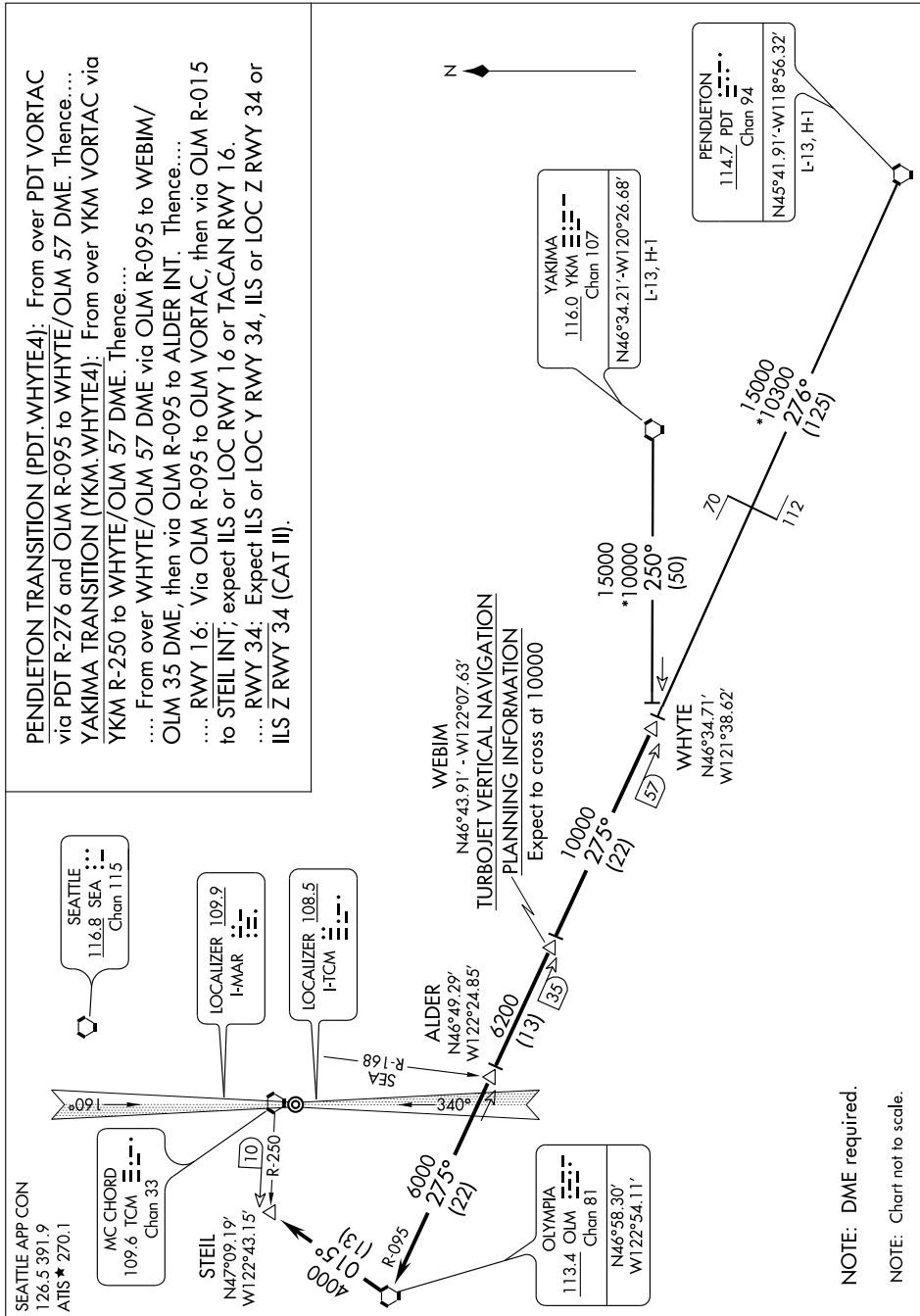
PENDLETON TRANSITION (PDT.WHYTE4): From over PDT VORTAC via PDT R-276 and OLM R-095 to WHYTE/OLM 57 DME. Thence....

YAKIMA TRANSITION (YKM.WHYTE4): From over YKM VORTAC via YKM R-250 to WHYTE/OLM 57 DME. Thence....

.... From over WHYTE/OLM 57 DME via OLM R-095 to WEBIM/OLM 35 DME, then via OLM R-095 to ALDER INT. Thence....

.... RWY 16: Via OLM R-095 to OLM VORTAC, then via OLM R-015 to STEIL INT; expect ILS or LOC RWY 16 or TACAN RWY 16.

.... RWY 34: Expect ILS or LOC Y RWY 34, ILS or LOC Z RWY 34 or ILS Z RWY 34 (CAT III).

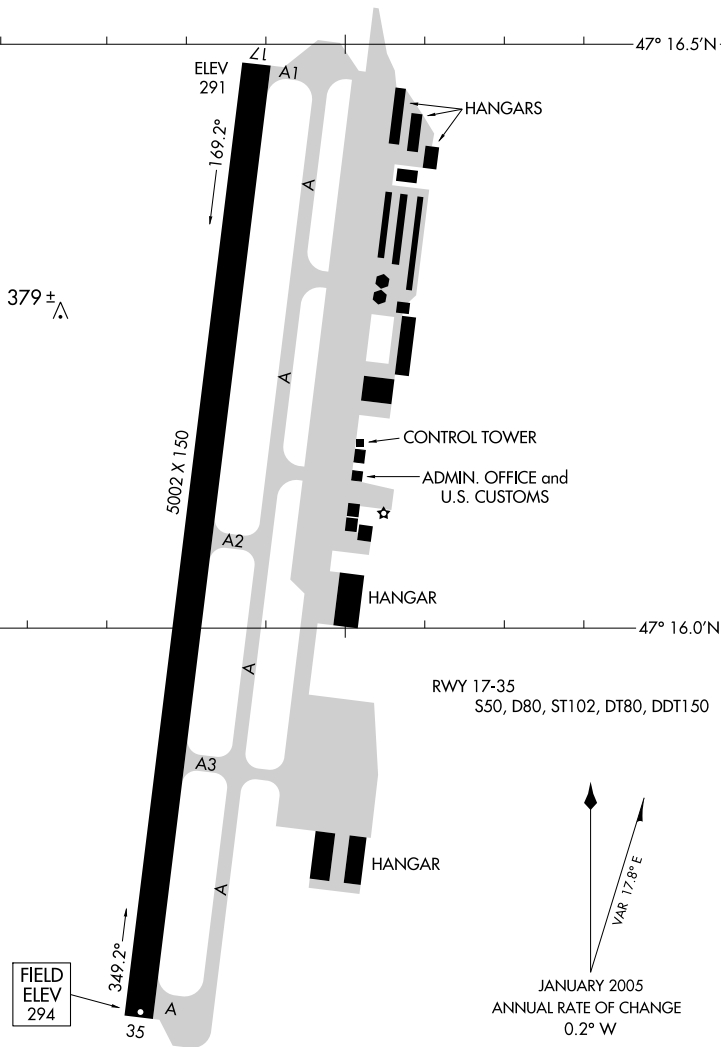


AIRPORT DIAGRAM

AL-5186 (FAA)

TACOMA NARROWS (TIW)
TACOMA, WASHINGTON

ATIS 124.05
TACOMA TOWER★
118.5 253.5
GND CON
121.8



NW-1. 14 JAN 2010 to 11 FEB 2010

LOC I-TIW <u>109.1</u>	APP CRS 167°	Rwy Idg 5002 TDZE 292 Apt Elev 292
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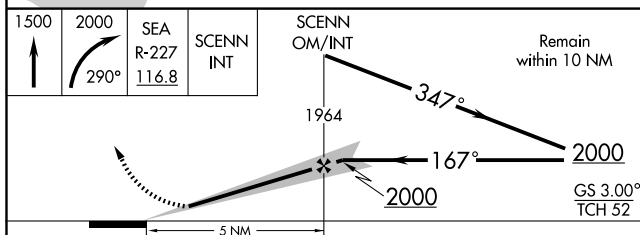
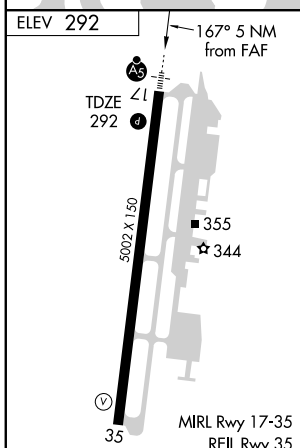
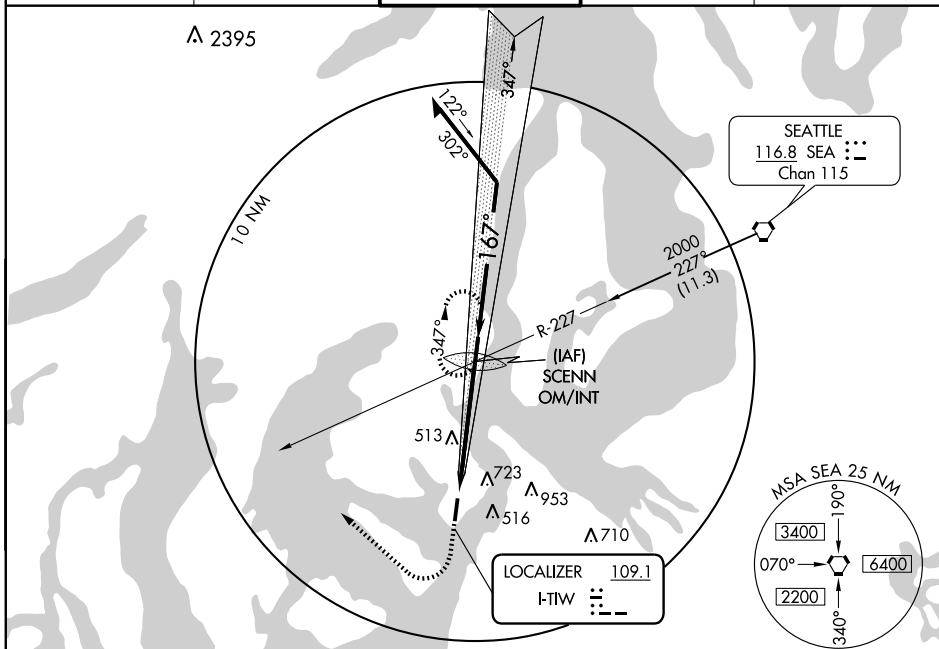
ILS RWY 17
TACOMA NARROWS (TIW)

- T** When control tower closed, obtain local altimeter setting on UNICOM,
A when not received, use McChord AFB altimeter setting minimums.
 Circling not authorized East of Rwy 17-35.



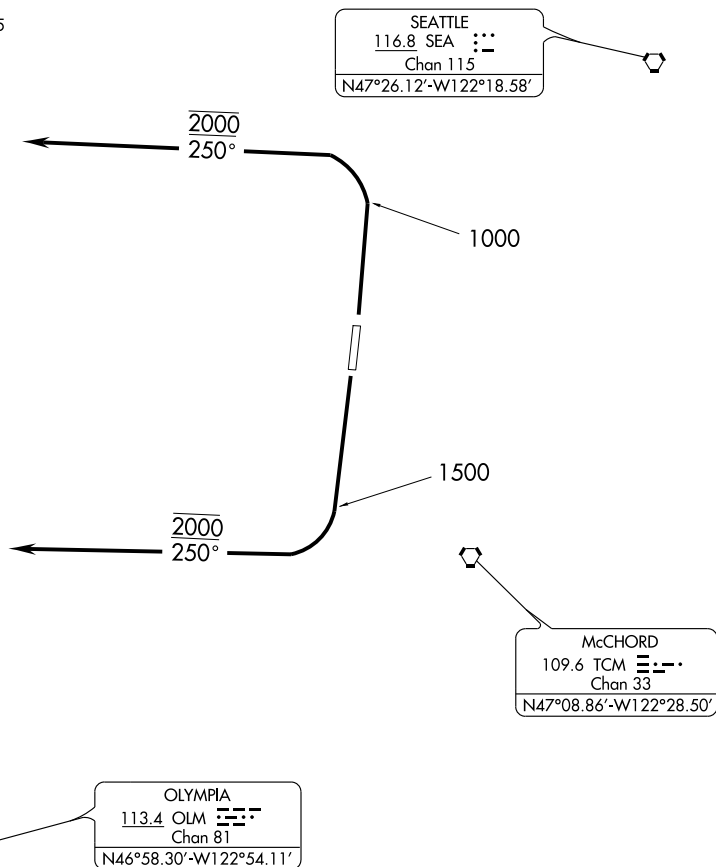
MISSED APPROACH: Climb to 1500, then climbing right turn to 2000 via heading 290° and SEA VORTAC R-227 to SCENN INT and hold.

ATIS 124.05	SEATTLE APP CON 120.1 290.9	TACOMA TOWER★ 118.5 (CTAF) 0 253.5	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 17	492-½ 200 (200-½)			
S-LOC 17	760-½ 468 (500-½)	760-¾ 468 (500-¾)	760-1 468 (500-1)	
CIRCLING	760-1 468 (500-1)	760-1½ 468 (500-1½)	860-2 568 (600-2)	
McCHORD AFB ALTIMETER SETTING MINIMUMS				
S-ILS 17	517-½ 225 (300-½)			
S-LOC 17	780- ½ 488 (500- ½)	780- ¾ 488 (500- ¾)	780-1 488 (500-1)	
CIRCLING	780-1 488 (500-1)	780-1½ 488 (500-1½)	860-2 568 (600-2)	

ATIS 124.05
GND CON 121.8
TACOMA TOWER
118.5 (CTAF) 253.5
SEATTLE DEP CON
120.1 290.9



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Climb runway heading until leaving 1500, turn right heading 250°, maintain 2000. Expect filed altitude 5 minutes after departure. Expect radar vectors to assigned route

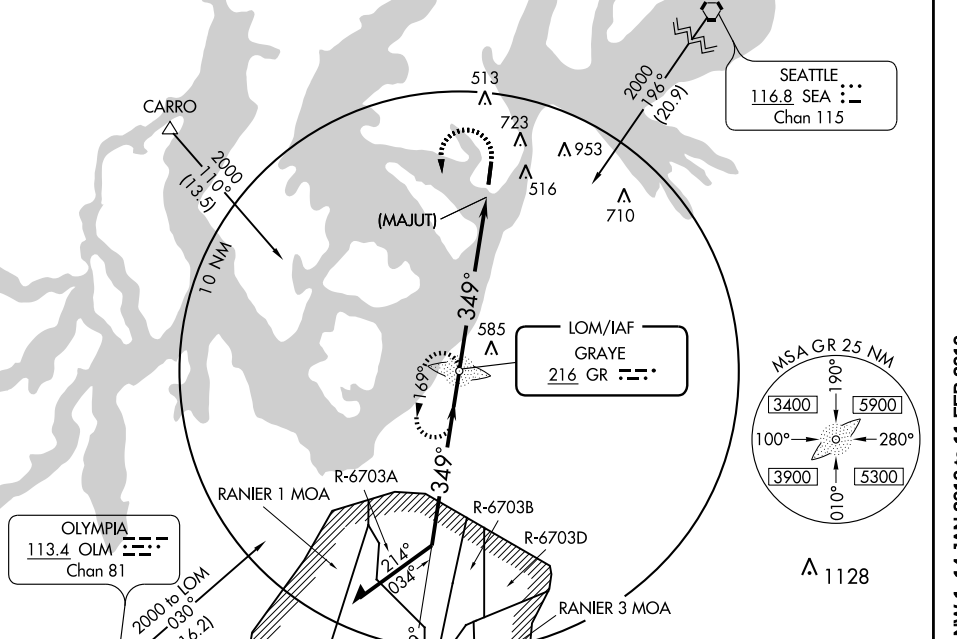
TAKE-OFF RUNWAY 35: Climb runway heading until leaving 1000, turn left heading 250°, maintain 2000. Expect filed altitude 5 minutes after departure. Expect radar vectors to assigned route.

LOST COMMUNICATIONS: If no transmissions are received for 3 minutes after departure, climb to filed altitude direct SEA VORTAC, thence via assigned route.

▼ When control tower closed, obtain local altimeter setting on UNICOM; when not received, use McChord AFB altimeter setting. Circling not authorized East of Rwy 17-35.

MISSED APPROACH: Climb to 1000, then climbing left turn to 2000 direct GR LOM and hold.

ATIS 124.05	SEATTLE APP CON 120.1 290.9	TACOMA TOWER★ 118.5 (CTAF) 0 253.5	GND CON 121.8	UNICOM 122.95
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Remain within 10 NM

LOM

2000

169°

349°

2000

(MAJUT)

6.3 NM

0.4

VGSI and descent angle not coincident.

CATEGORY	A	B	C	D
S-35	1000-1	708 (800-1)	1000-2 708 (800-2)	1000-2¼ 708 (800-2¼)
CIRCLING	1000-1	708 (800-1)	1000-2 708 (800-2)	1000-2¼ 708 (800-2¼)
McCHORD AFB ALTIMETER SETTING MINIMUMS				
S-35	1020-1	728 (800-1)	1020-2 728 (800-2)	1020-2¼ 728 (800-2¼)
CIRCLING	1020-1	728 (800-1)	1020-2 728 (800-2)	1020-2¼ 728 (800-2¼)

ELEV 292

MIRL Rwy 17-35

REIL Rwy 35

5002 X 150

35

349° 6.7 NM from FAF

TDZE 292

355

344

FAF to MAP 6.3 NM

Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

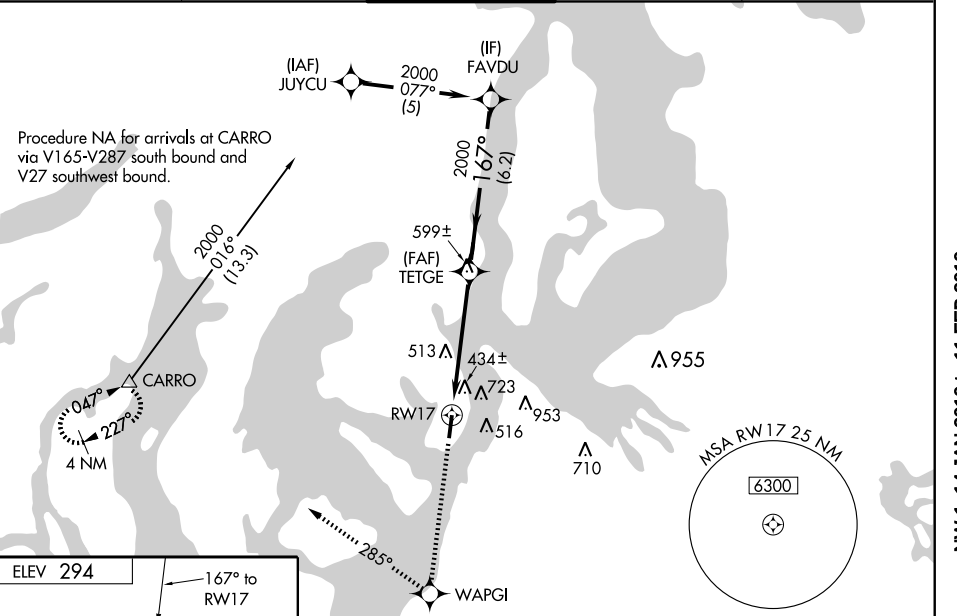
⚠ Inoperative table does not apply to LNAV Cats A and B.
Circling NA east of Rwy 17/35.

⚠ Baro-VNAV NA when using McCord AFB altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use McCord AFB altimeter setting and increase all DA/MDA 40 feet.

MALSR

MISSED APPROACH: Climb to 4000 direct WAPGI and right turn via 285° track to CARRO and hold, continue climb-in-hold to 4000.

ATIS 124.05	SEATTLE APP CON 120.1 290.9	TACOMA TOWER ★ 118.5 (CTAF) 0 253.5	GND CON 121.8	UNICOM 122.95
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4000

WAPGI

285° track

CARRO

TETGE

FAVDU

Procedure Turn NA

RWY 17

167°

2000

2000

5.1 NM

6.2 NM

CATEGORY	A	B	C	D
LPV DA	638-1 344 (400-1)			
LNAV/VNAV DA	992-2 698 (700-2)			
LNAV MDA	980-1	686 (700-1)	980-1½ 686 (700-1½)	980-1¾ 686 (700-1¾)
CIRCLING	980-1	686 (700-1)	980-2 686 (700-2)	980-2¼ 686 (700-2¼)

NW-1. 14 JAN 2010 to 11 FEB 2010

WAAS CH 50312 W35A	APP CRS 347°	Rwy Idg 5002 TDZE 294 Apt Elev 294
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RNAV (GPS) RWY 35
TACOMA NARROWS (TIW)

TACOMA NARROWS (TIW)

Baro-VNAV NA when using McChord AFB altimeter setting.

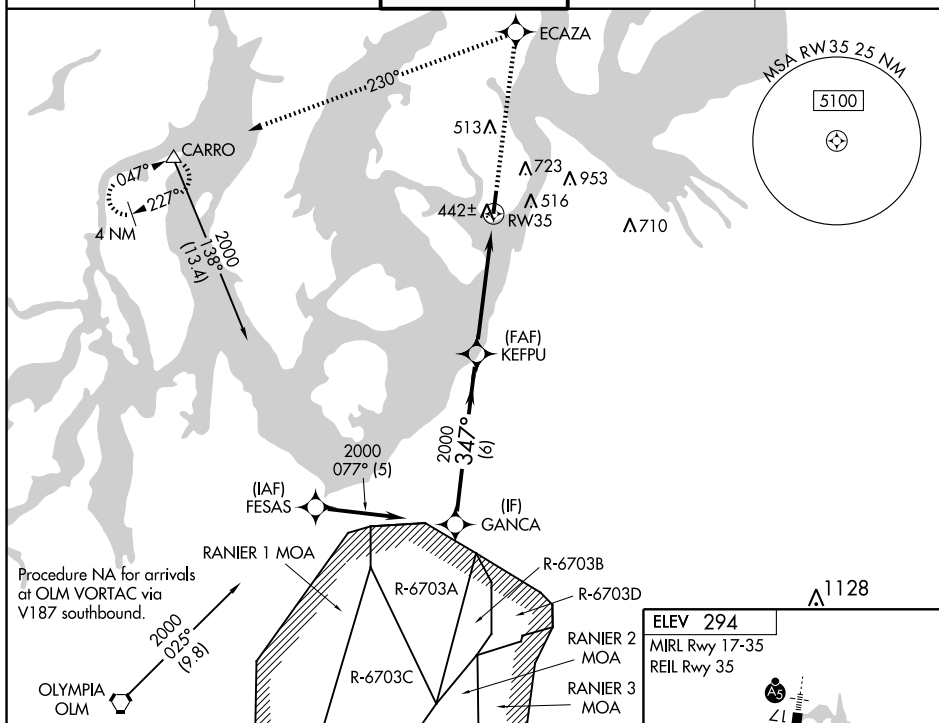
For uncompensated Baro-VNAV systems, [LNAV/NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.

Visibility reduction by helicopters NA. Circling NA east of Rwy 17-35.

When local altimeter setting not received, use McChord AFB altimeter setting and increase all DA 25 feet and all MDA 40 feet.

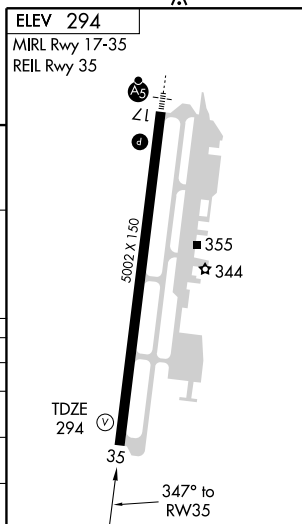
MISSED APPROACH: Climb to 4000 direct ECAZA and left turn via 230° track to CARRO and hold, continue climb-in-hold to 4000.

ATIS	SEATTLE APP CON	TACOMA TOWER ★	GND CON	UNICOM
124.05	120.1 290.9	118.5 (CTAF) 253.5	121.8	122.95



NW-1. 14 JAN 2010 to 11 FEB 2010

Figure 1 illustrates a 4-segment RNAV approach. The path starts at GANCA, proceeds to a point 6 NM away (labeled 2000), then to a point 5.1 NM away (labeled 2000), and finally to RW35. The path is divided into four segments: A (GANCA to B), B (B to C), C (C to D), and D (D to RW35). The distance from GANCA to B is 6 NM, and from B to C is 5.1 NM. The distance from C to D is 5.1 NM, and from D to RW35 is 5.1 NM. The path is labeled with '2000' at the start and '2000' at the intersection of segments B and C. The path is labeled with 'RW35' at the end. The path is labeled with 'GANCA', 'KEFPU', 'ECAZA', and 'RW35' at the respective points. The path is labeled with 'Procedure Turn NA' and 'GS 3.00° TCH 51'.

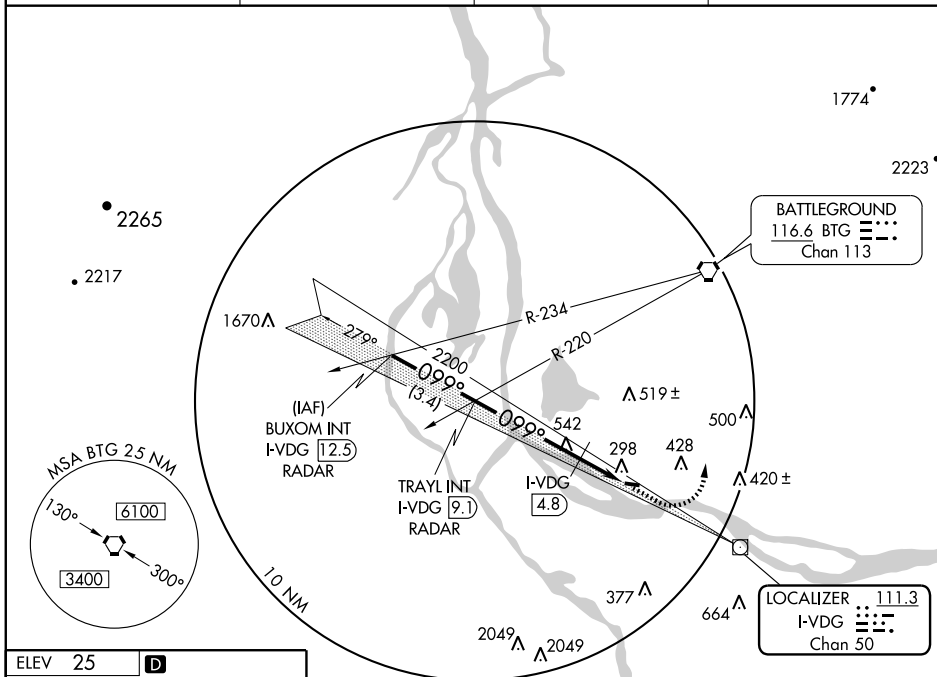


LOC/DME I-VDG 111.3 Chan 50	APP CRS 099°	Rwy Idg TDZE Apt Elev	N/A N/A 25
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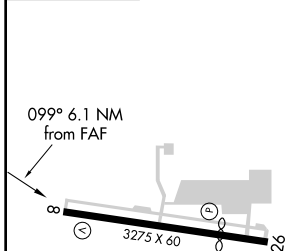
NA Use Portland Intl altimeter setting.

MISSED APPROACH: Climb to 900 then climbing left turn to 4000 direct to BTG VORTAC.

ASOS 135.125	PORTLAND APP CON 124.35 299.2	CLNC DEL 121.65	UNICOM 123.0 (CTAF) 1
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ELEV 25	D
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RADAR REQUIRED

	BUXOM INT I-VDG 12.5 RADAR	TRAYL INT I-VDG 9.1 RADAR	I-VDG 4.8	I-VDG 3	
	3000	2200	860		
Procedure Turn	NA				
	3.4 NM	4.3 NM	1.8 NM		
CATEGORY	A	B	C	D	
CIRCLING	860-1 835 (900-1)	860-1 1/4 835 (900-1 1/4)		NA	
	DME MINIMUMS				
CIRCLING	660-1 635 (700-1)	720-1 695 (700-1)		NA	

FAF to MAP 6.1 NM					
Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

AIRPORT DIAGRAM

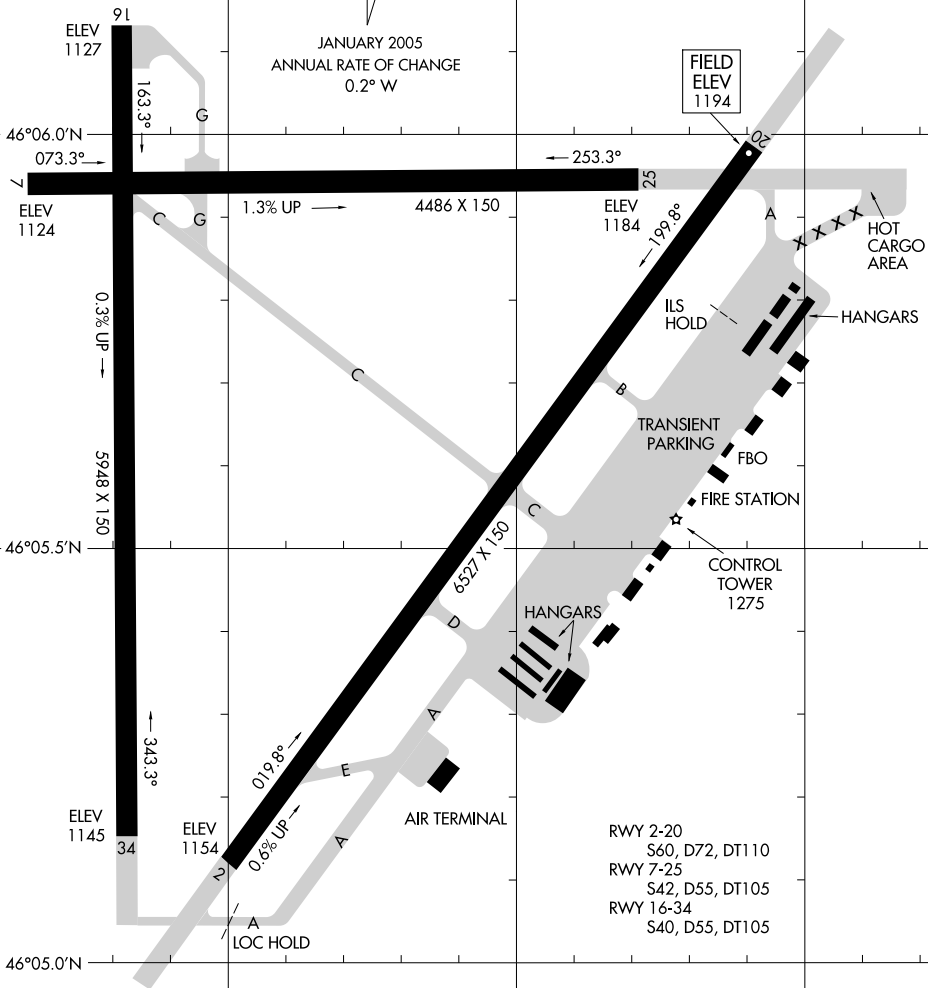
AL-440 (FAA)

WALLA WALLA RGNL (ALW)
WALLA WALLA, WASHINGTON

ASOS
135.875
WALLA WALLA TOWER ★
118.5 289.4
GND CON
121.6 289.4



JANUARY 2005
ANNUAL RATE OF CHANGE
0.2° W



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

118°17.5'W

118°17.0'W

118°16.5'W

NW-1. 14 JAN 2010 to 11 FEB 2010

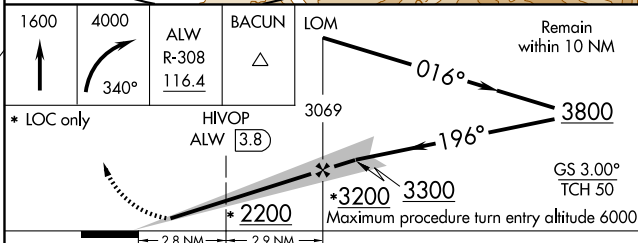
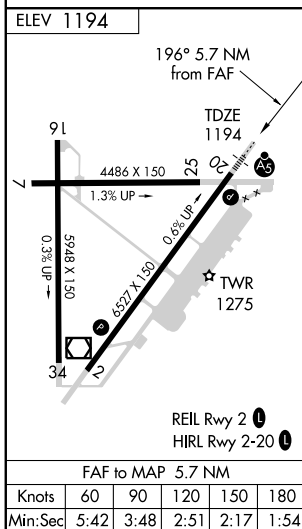
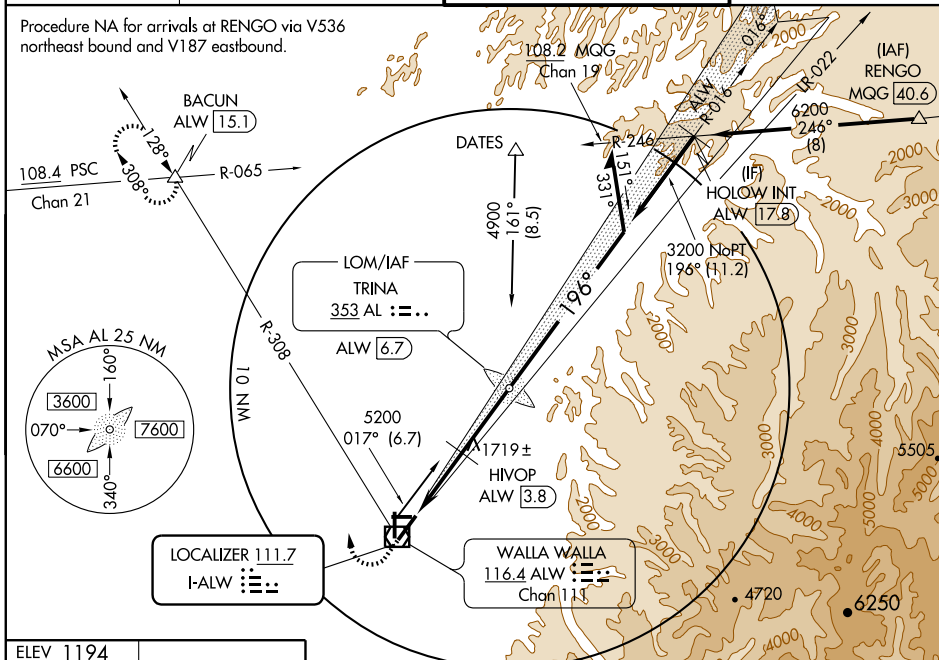
LOC I-ALW	APP CRS	Rwy Idg	6527
111.7	196°	TDZE	1194
		Apt Elev	1194

ILS or LOC RWY 20

WALLA WALLA RGNL (ALW)

# RVR 1800 authorized with the use of FD or AP or HUD to DA.	MALSR 	MISSED APPROACH: Climb to 1600 then climbing right turn to 4000 heading 340° and ALW R-308 to BACUN INT/ALW 15.1 DME and hold.
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ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 0 289.4	GND CON 121.6 289.4
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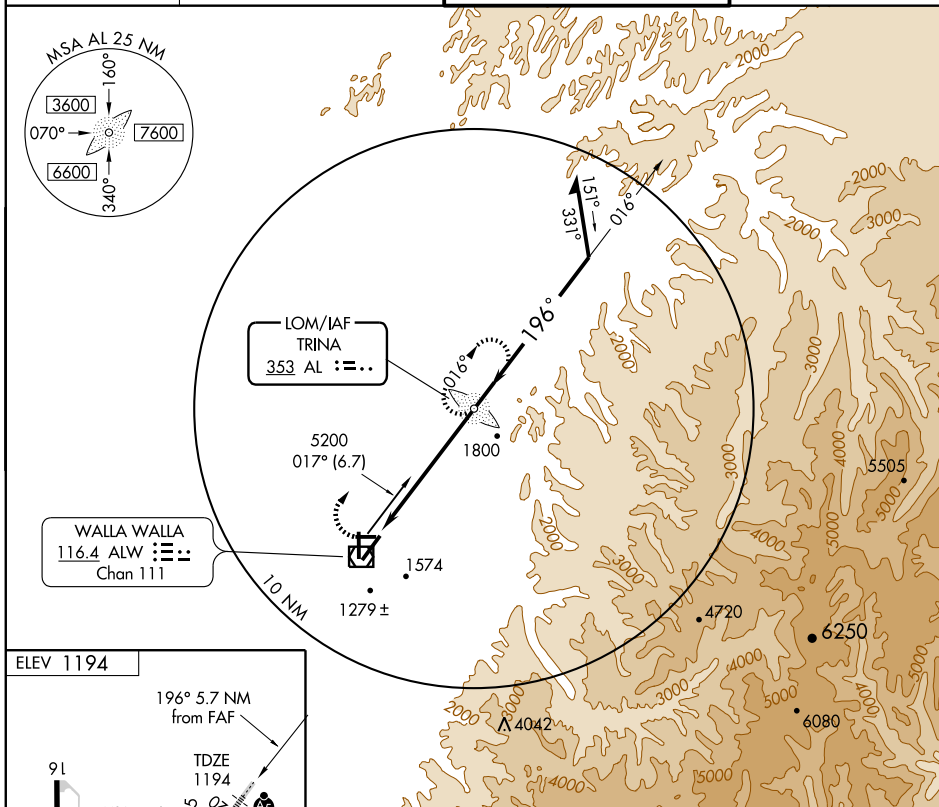
CATEGORY	A	B	C	D
S-ILS 20	#1394/24 200 (200-½)			
S-LOC 20	2200/40 1006 (1100-¾)	2200/50 1006 (1100-1)	2200-2½	1006 (1100-2½)
CIRCLING	2200-1¼ 1006 (1100-1¼)	2200-1½ 1006 (1100-1½)	2200-3	1006 (1100-3)
DME MINIMUMS				
S-LOC 20	1980/24 786 (800-½)	1980/40 786 (800-¾)	1980-1¾ 786 (800-1¾)	1980-2 786 (800-2)
CIRCLING	1980-1 786 (800-1)	1980-1¼ 786 (800-1¼)	1980-2¼ 786 (800-2¼)	1980-2½ 786 (800-2½)

LOM AL	APP CRS	Rwy Idg	6527
353	196°	TDZE	1194
		Apt Elev	1194

NDB RWY 20

WALLA WALLA RGNL (ALW)

		MALS 	MISSED APPROACH: Climbing right turn to 3700 direct TRINA LOM and hold.
ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 0 289.4	GND CON 121.6 289.4



4486 X 150
1.3% UP
5948 X 150
0.3% UP
6527 X 150
TWR 1275
34
2
35

REIL Rwy 2
HIRL Rwy 2-20

3700

AL

353

LOM

016°

Remain within 10 NM

3800

196°

3200

Maximum procedure turn entry altitude 6000.

5.7 NM

CATEGORY	A	B	C	D
S-20	2200/40 1006 (1100-¾)	2200/50 1006 (1100-1)	2200-2½ 1006 (1100-2½)	2200-2¾ 1006 (1100-2¾)
CIRCLING	2200-1¼ 1006 (1100-1¼)	2200-1½ 1006 (1100-1½)	2200-3	1006 (1100-3)

FAF to MAP 5.7 NM

Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

WAAS CH 72805 W02A	APP CRS 016°	Rwy Idg TDZE Apt Elev	6527 1173 1194
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DME/DME RNP- 0.3 NA.

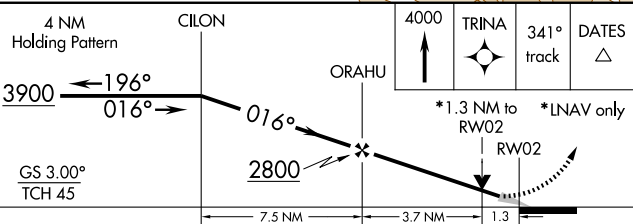
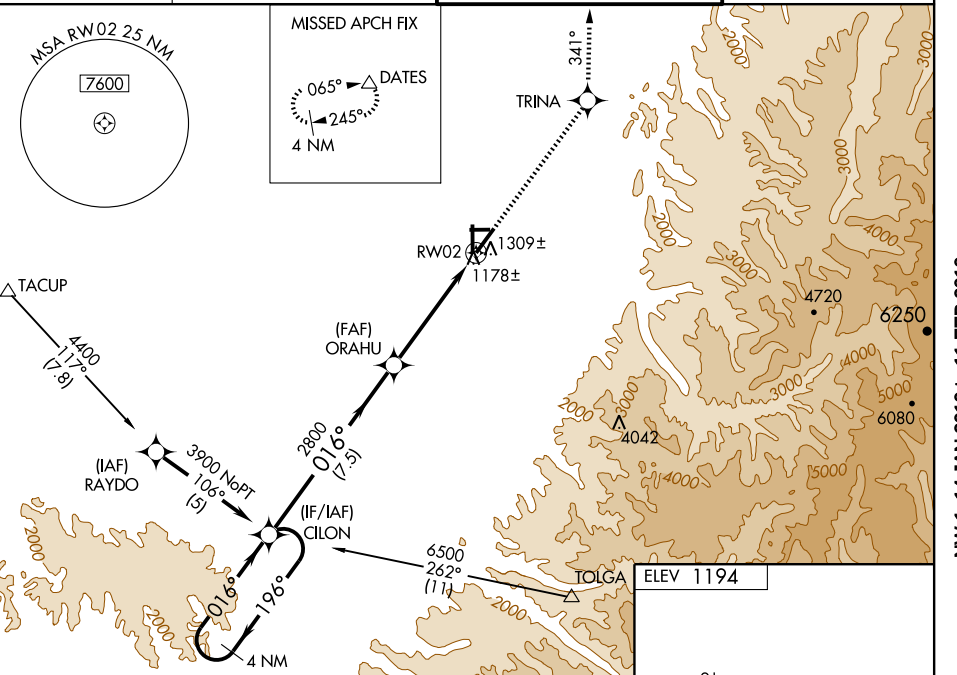
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F).

When local altimeter setting not received, use Pendleton altimeter setting and increase all DAs/MDAs 120 feet and LPV visibilities ¼ mile, LNAV/VNAV visibilities ½ mile, LNAV Cats. C/D visibility ¼ mile, and Circling Cat. C/D visibility ½ mile.

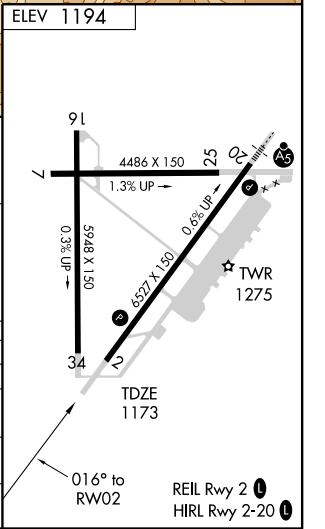
VDP and Baro-VNAV NA when using Pendleton altimeter setting.

MISSED APPROACH: Climb to 4000 direct TRINA and via 341° track to DATES and hold.

ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 0 289.4	GND CON 121.6 289.4
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CATEGORY	A	B	C	D
LPV DA	1423-1 250 (300-1)			
LNAV/VNAV DA	1612-1½ 439 (500-1½)			
LNAV MDA	1620-1 447 (500-1)	1620-1¼ 447 (500-1¼)	1620-1½ 447 (500-1½)	
CIRCLING	1760-1 566 (600-1)	1820-1¾ 626 (700-1¾)	1980-2½ 786 (800-2½)	



APP CRS	Rwy Idg	5948
160°	TDZE	1136
	Apt Elev	1191

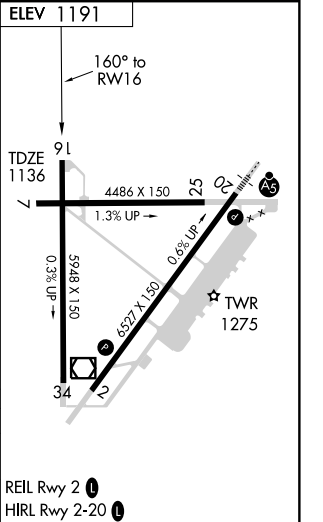
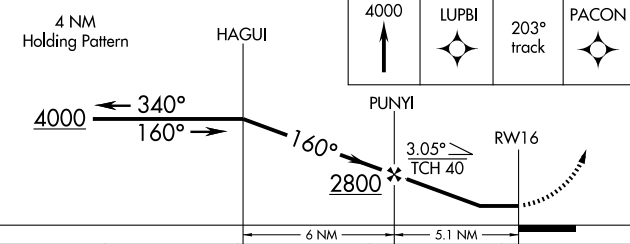
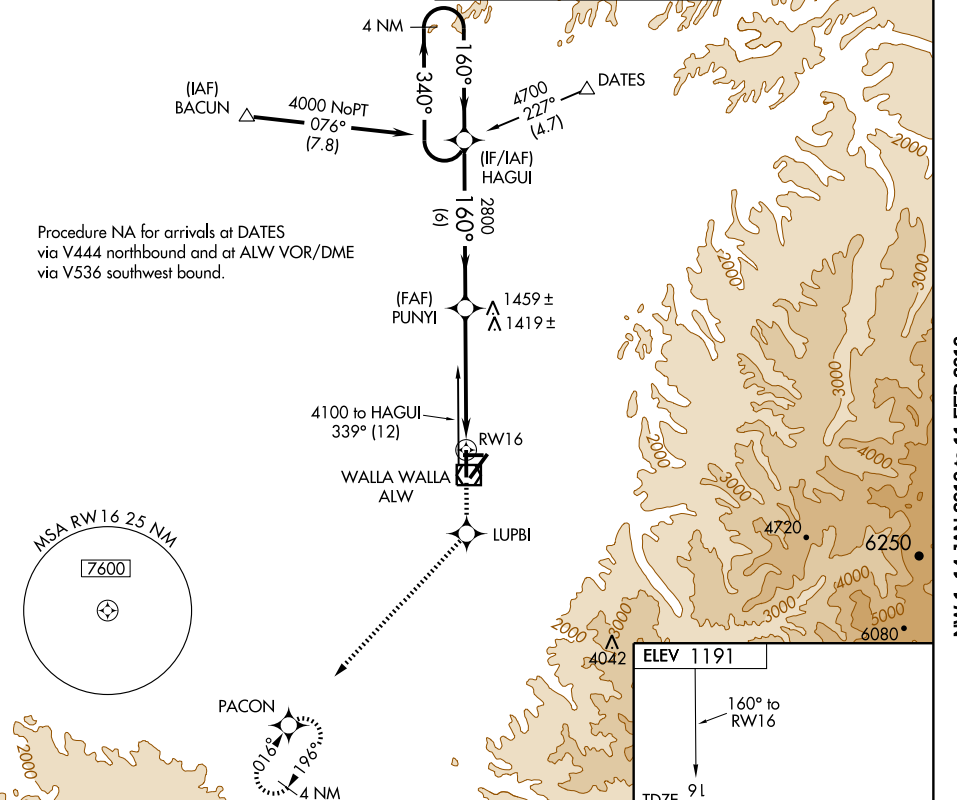
▼

▲

Straight-in/circling to Rwy 16 NA at night.
DME/DME RNP-0.3 NA.
Inoperative table does not apply.

MISSED APPROACH: Climb to 4000 direct LUPBI
and via 203° track to PACON and hold.

ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 0 289.4	GND CON 121.6 289.4
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REIL Rwy 2 0

HIRL Rwy 2-20 0

WAAS CH 90299 W20A	APP CRS 196°	Rwy Idg TDZE Apt Elev	6527 1194 1194
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RNAV (GPS) RWY 20

WALLA WALLA RGNL (ALW)

DME/DME RNP-0.3 NA.
Baro-VNAV NA below -17°C (2°F).
 For inoperative MALSR, increase LPV visibility all Cats to RVR 4000.



MISSED APPROACH: Climb to 4000 direct PACON and hold.

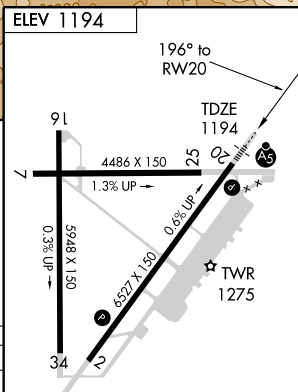
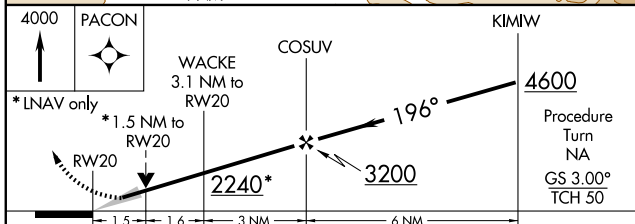
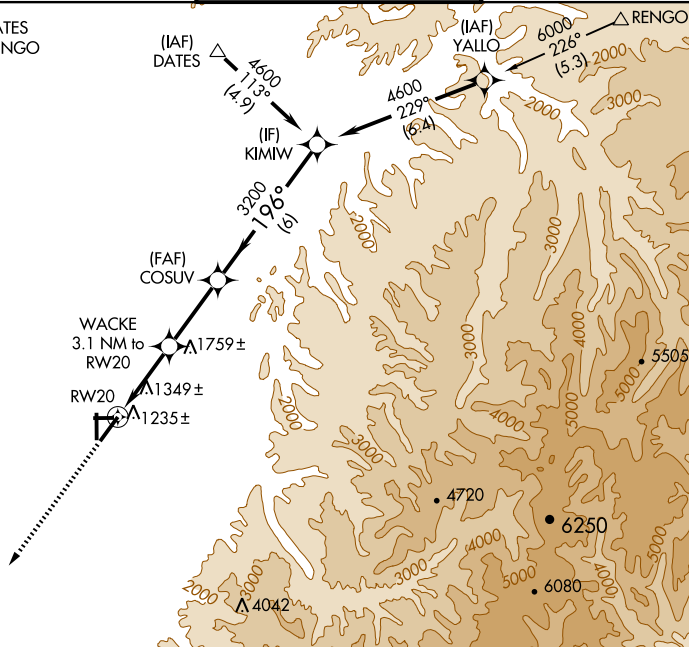
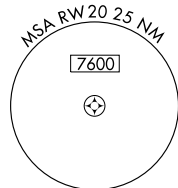
ASOS
135.875

CHINOOK APP CON ★
133.15 379.15

WALLA WALLA TOWER ★
118.5 (CTAF) 0 289.4

GND CON
121.6 289.4

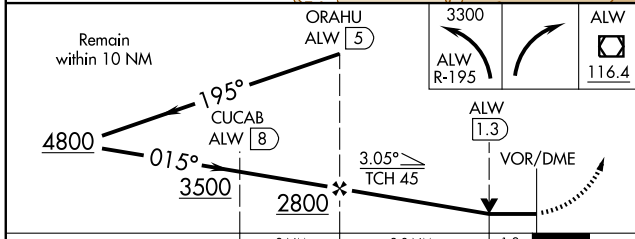
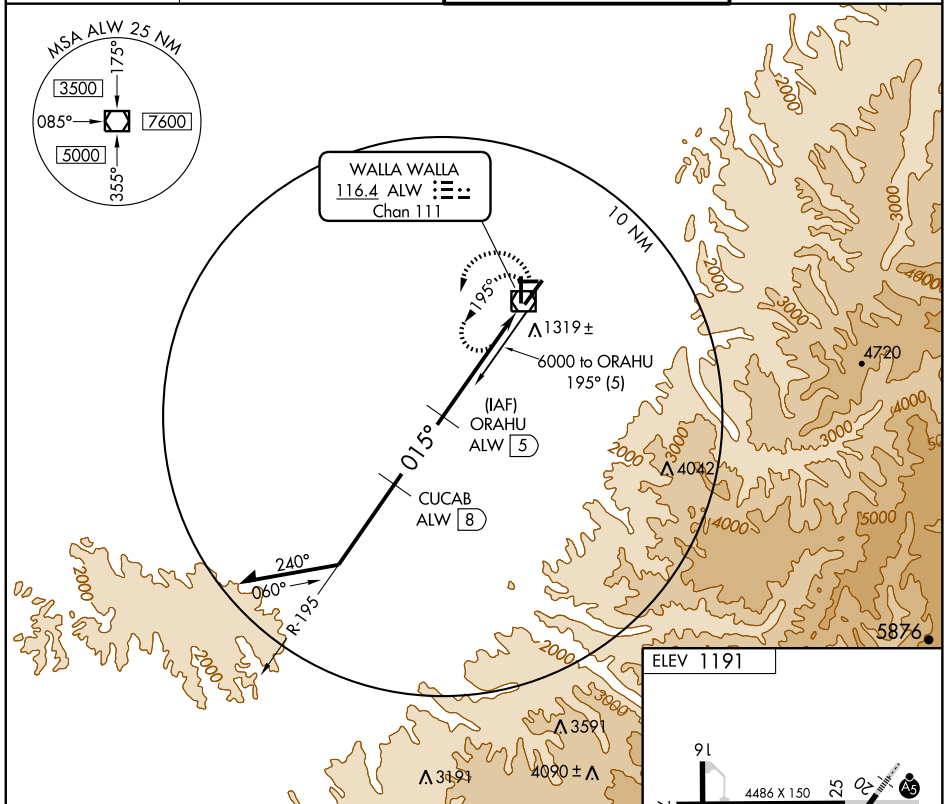
Procedure NA for arrivals at DATES via V444 northbound and at RENG0 via V536 northeast bound.



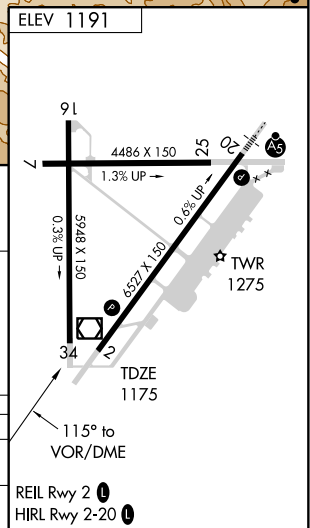
CATEGORY	A	B	C	D
LPV DA	1444/24 250 (300-½)			
LNNAV/VNAV	1694/60 500 (500-1¼)			
LNNAV MDA	1720/24 526 (600-½)		1720/50 526 (600-1¼)	1720/60 526 (600-1¼)
CIRCLING	1760-1¾ 566 (600-1¾)		1820-1¾ 626 (700-1¾)	1980-2½ 786 (800-2½)

REIL Rwy 2 0
HIRL Rwy 2-20 0

 		MISSED APPROACH: Climbing left turn to 3300 via ALW VOR/DME R-195 within 10 DME then turn right direct ALW VOR/DME and hold.	
ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 0 289.4	GND CON 121.6 289.4



CATEGORY	A	B	C	D
S-2	1580-1	405 (400-1)	1580-1¼	405 (400-1¼)
CIRCLING	1760-1	569 (600-1)	1820-1¾ 629 (700-1¾)	1980-2½ 789 (800-2½)



VOR/DME ALW	APP CRS	Rwy Idg	5948
116.4	154°	TDZE	1136
Chan 111		Apt Elev	1191

VOR RWY 16

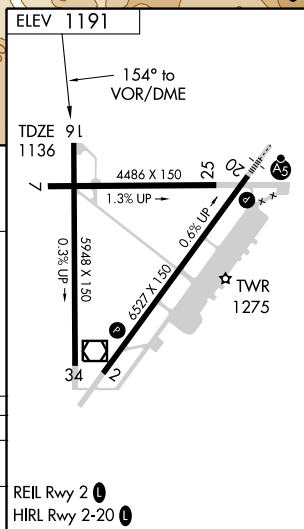
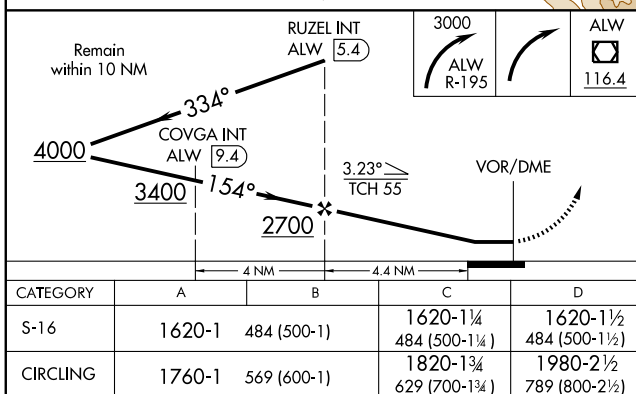
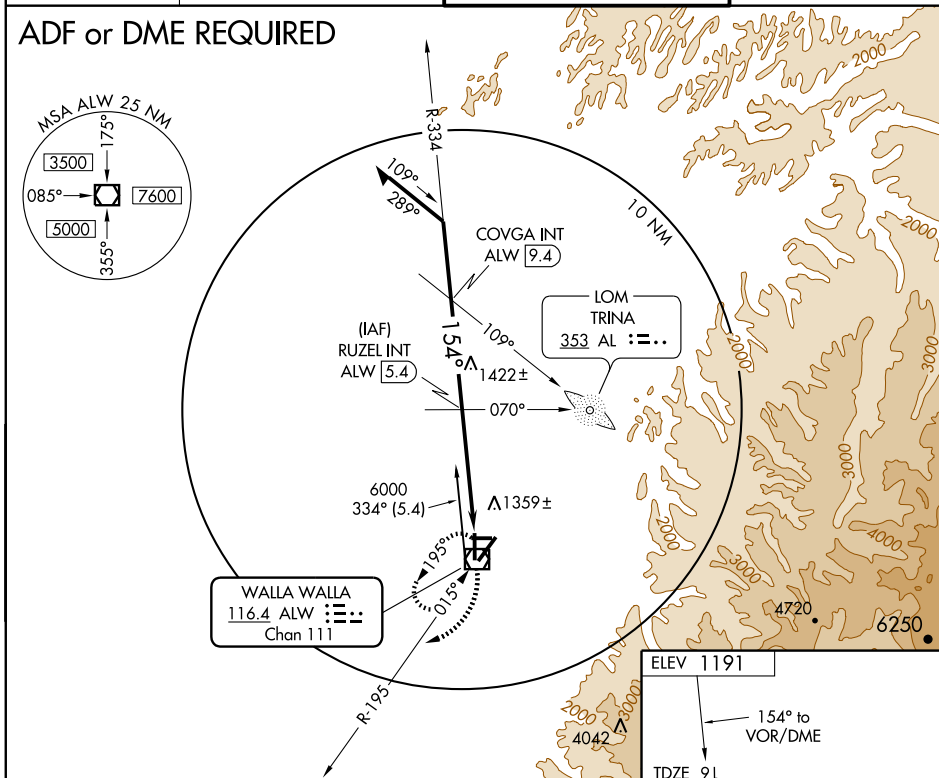
WALLA WALLA RGNL (ALW)

▼ Straight-in/circling to Rwy 16 NA at night.
▲ NA Inoperative table does not apply.

MISSED APPROACH: Climbing right turn to 3000
 via ALW VOR/DME R-195 within 10 DME then
 right turn direct ALW VOR/DME and hold.

ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 1 289.4	GND CON 121.6 289.4
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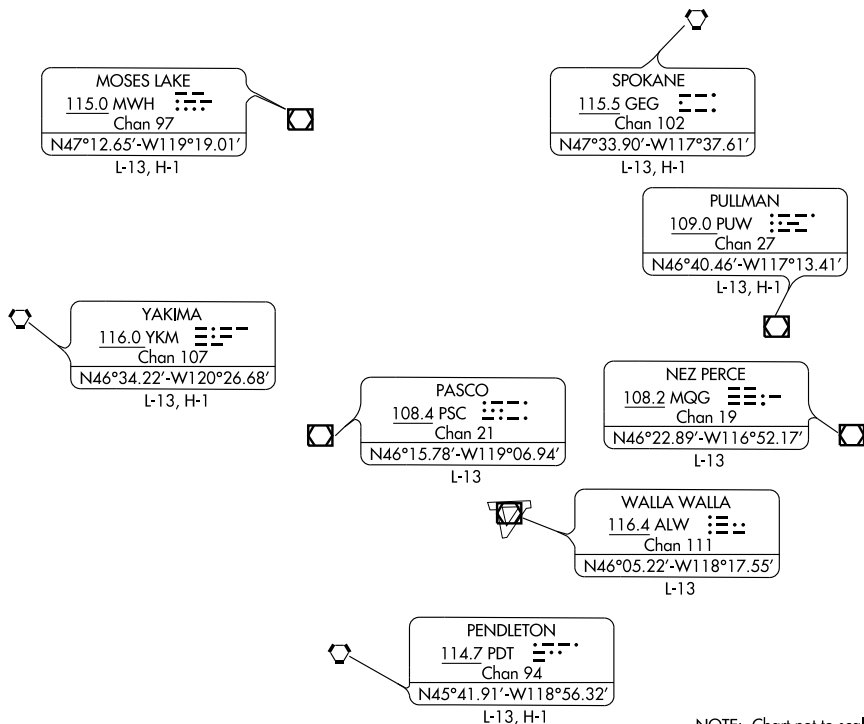
ADF or DME REQUIRED



CATEGORY	A	B	C	D
S-16	1620-1	484 (500-1)	1620-1½ 484 (500-1½)	1620-1½ 484 (500-1½)
CIRCLING	1760-1	569 (600-1)	1820-1¾ 629 (700-1¾)	1980-2½ 789 (800-2½)

REIL Rwy 2 1
 HIRL Rwy 2-20 1

WALLA WALLA GND CON
121.6 289.4
WALLA WALLA TOWER ★
118.5 (CTAF) 289.4
CHINOOK APP CON ★
133.15 379.15



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb via specified turn and heading for vector to assigned route.

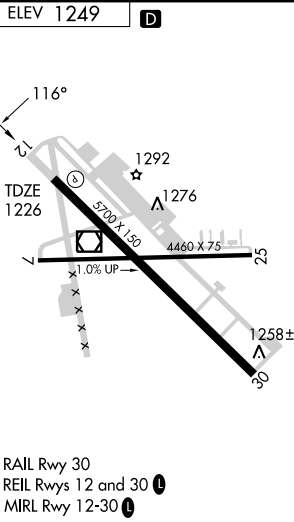
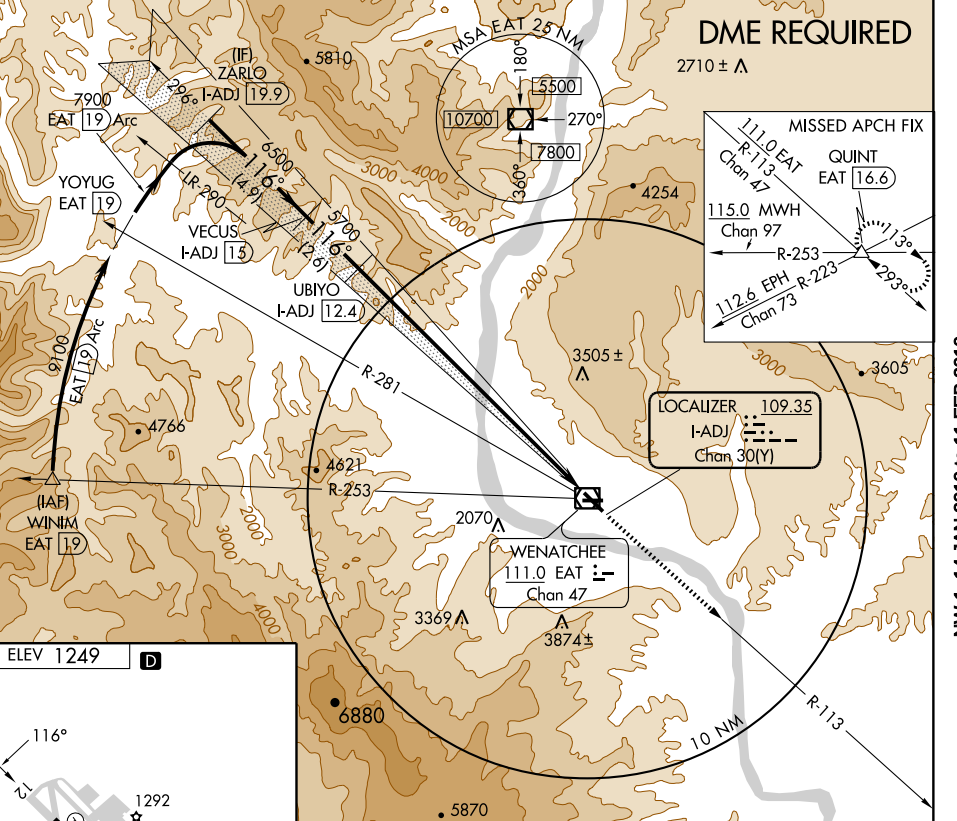
LOST COMMUNICATIONS: If not in contact with Departure Control after reaching 2500' continue climb to assigned altitude and proceed direct to ALW VOR/DME, thence via assigned route.

Note: Air Traffic Control may assign turns and magnetic headings of 195° clockwise through 020° in the initial clearance.

When VGSI inoperative, procedure NA at night.

MISSED APPROACH: Climb to 4000 direct EAT VOR/DME and via EAT R-113 to QUINT INT/EAT 16.6 DME and hold.

ASOS 119.925	SEATTLE CENTER 126.1 291.6	UNICOM 123.0 (CTAF)
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	ZARLO I-ADJ 19.9	VECUS I-ADJ 15	UBIYO I-ADJ 12.4	4000 EAT 111.0	EAT R-113 111.0	QUINT
	7900	6500	5700	Use I-ADJ DME when on the localizer course. VGSI and ILS glidepath not coincident.		
	Procedure Turn NA					
	GS 3.60°					
	TCH 46					
	4.9 NM	2.6 NM	11.3 NM			
CATEGORY	A	B	C	D		
S-ILS 12	2539-4	1313 (1300-4)		NA		
CIRCLING				NA		

NW-1. 14 JAN 2010 to 11 FEB 2010

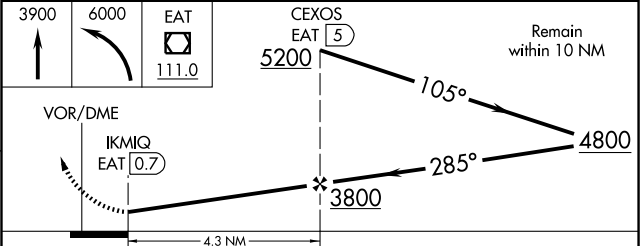
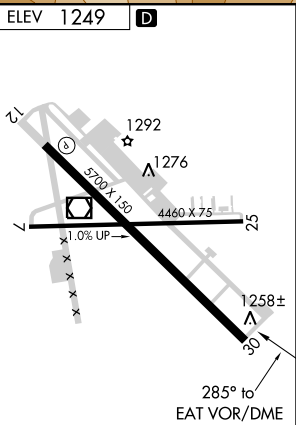
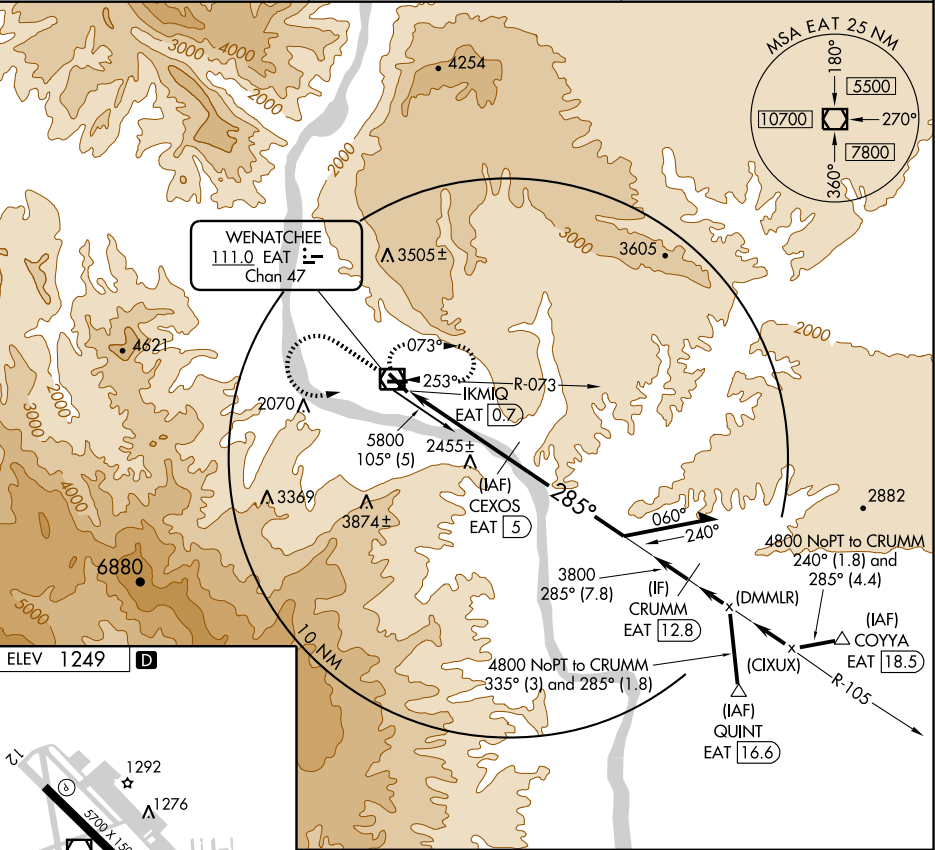
VOR/DME EAT 111.0 Chan 47	APP CRS 285°	Rwy Idg TDZE Apt Elev N/A 1249
---	------------------------	--

VOR/DME-A

WENATCHEE/PANGBORN MEMORIAL (EAT)

▼ ⚠ Circling NA northeast of Rwy 12-30. When local altimeter setting not received, use Ephrata altimeter setting and increase all MDA 80 feet.	MISSED APPROACH: Climb to 3900 then climbing left turn to 6000 direct EAT VOR/DME and hold, continue climb-in-hold to 6000.
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ASOS 119.925	SEATTLE CENTER 126.1 291.6	UNICOM 123.0 (CTAF) 0
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RAIL Rwy 30 REIL Rwy 12 and 30 MRL Rwy 12-30	CATEGORY	A	B	C	D
	CIRCLING	3180-1¼ 1931 (2000-1¼)	3180-1½ 1931 (2000-1½)	3180-3 1931 (2000-3)	

NW-1. 14 JAN 2010 to 11 FEB 2010

VOR/DME EAT 111.0 Chan 47	APP CRS 100°	Rwy Idg TDZE Apt Elev 1249	N/A N/A
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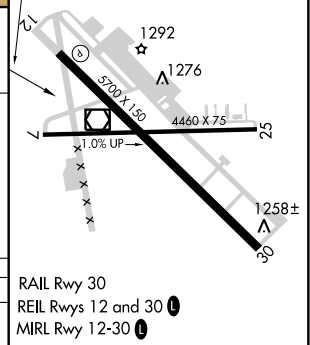
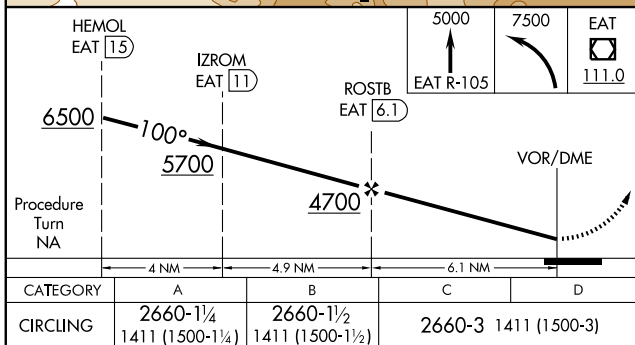
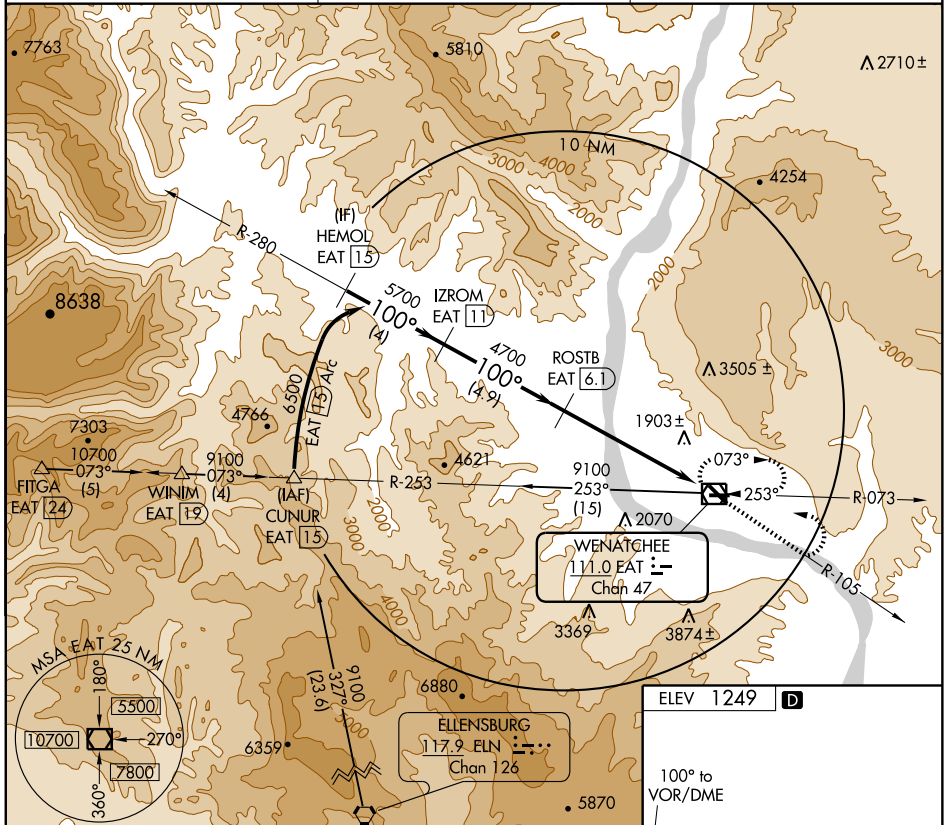
VOR/DME-C

WENATCHEE/PANGBORN MEMORIAL (EAT)

⚠ Circling NA northeast of Rwy 12-30.
⚠ When local altimeter setting not received, use Ephrata altimeter setting and increase all MDA 80 feet.

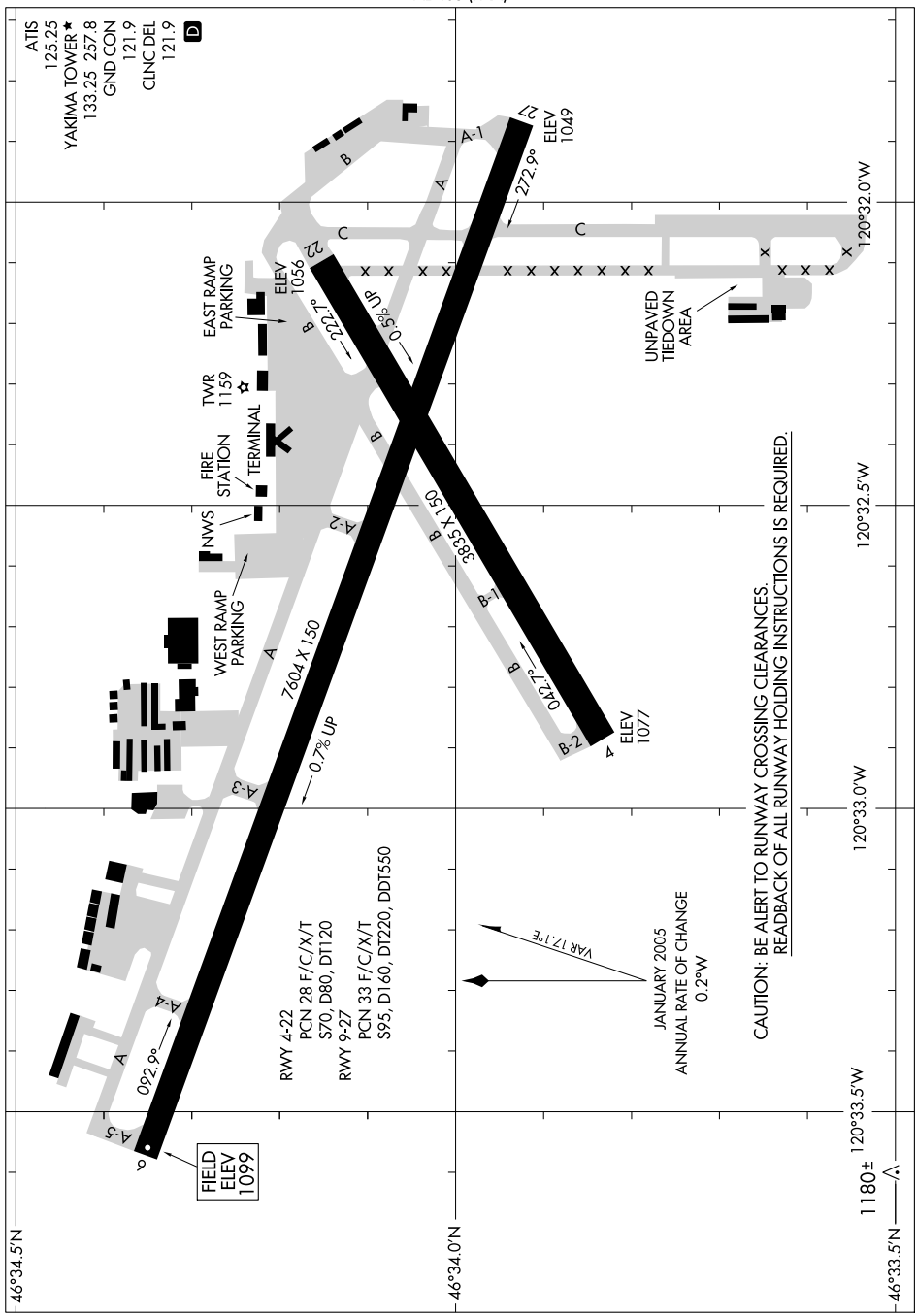
MISSED APPROACH: Climb to 5000 via EAT VOR/DME R-105 then climbing left turn to 7500 direct EAT VOR/DME and hold, continue climb-in-hold to 7500.

ASOS 119.925	SEATTLE CENTER 126.1 291.6	UNICOM 123.0 (CTAF) ①
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AIRPORT DIAGRAM

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)
AL-465 (FAA) YAKIMA, WASHINGTON



NW-1. 14 JAN 2010 to 11 FEB 2010

LOM YK <u>371</u>	APCH CRS 269°	Rwy ldg 7603 TDZE 1065 Arpt Elev 1095
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AL-465 [USA]

YAKIMA AIR TERMINAL/ MC ALLISTER FLD (KYKM)

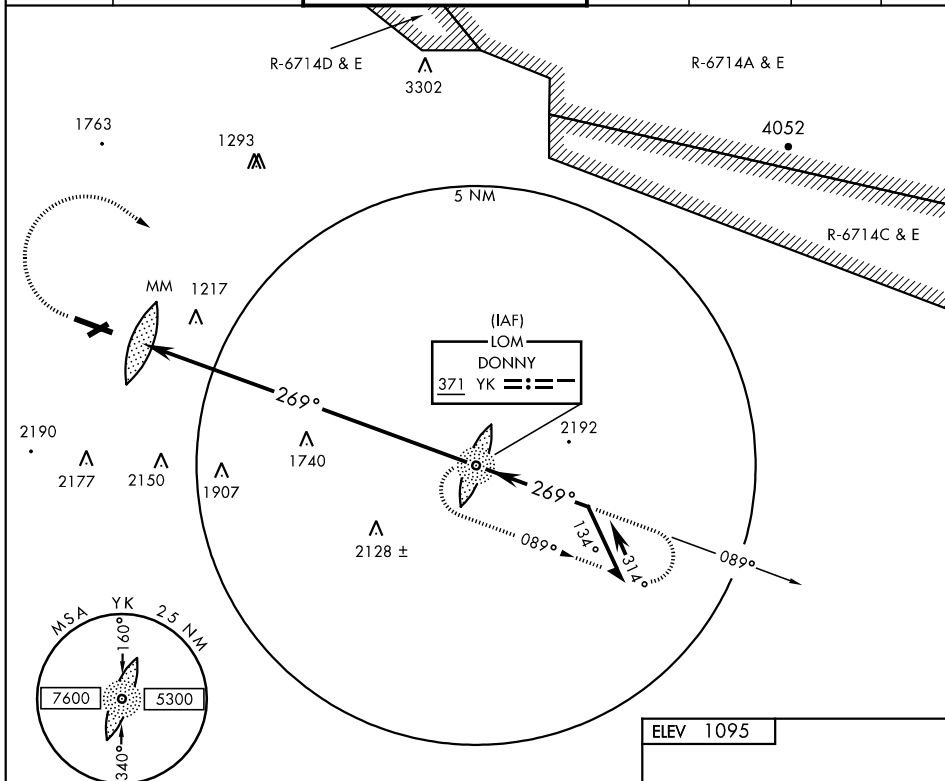


A NA

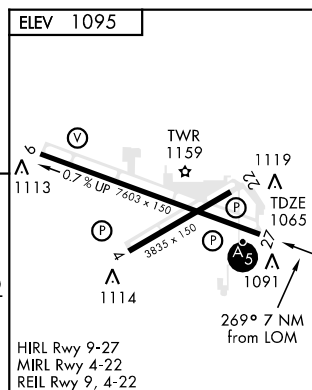
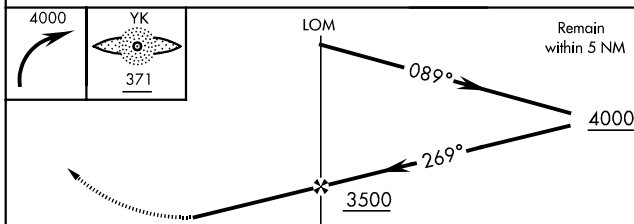


MISSED APPROACH: Climbing right turn to 4000 direct DONNY LOM and hold.

ATIS ★ 125.25	CHINOOK APP CON 123.8 263.15	YAKIMA TOWER ★ 133.25 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95	ASOS
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COPTER ONLY



		7.0 NM		FAF to MAP 7 NM					
CATEGORY	COPTER			Knots	45	60	75	90	105
H-269 °	2460-¾ 1395 (1400-¾)			Min:Sec	9:18	7:00	5:36	4:40	4:00

YAKIMA, WASHINGTON

46°34'N-120°33'W

YAKIMA AIR TERMINAL/ MC ALLISTER FLD (KYKM)

Orig 01333

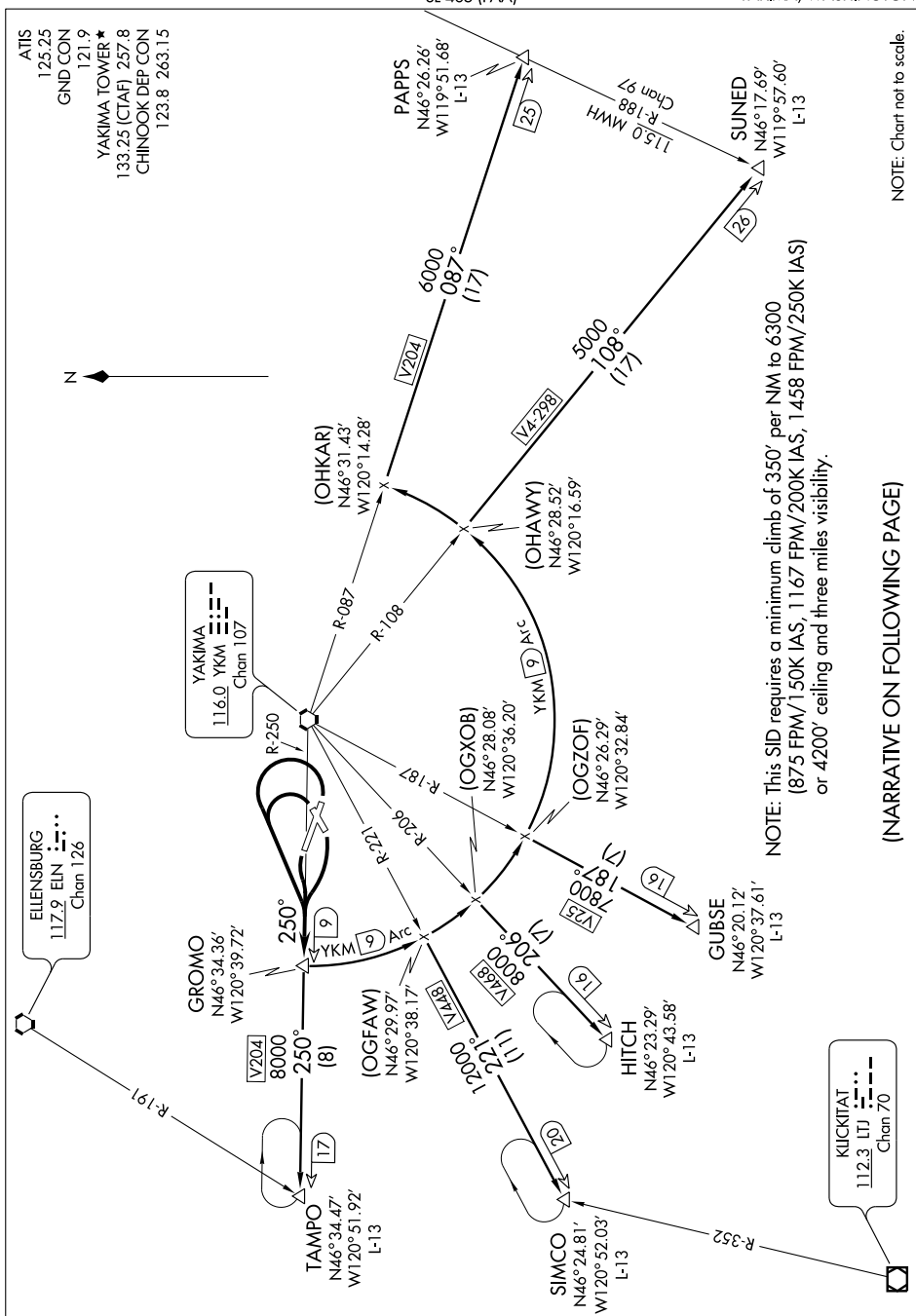
CORTEZ AND B. 2403

GROMO TWO DEPARTURE

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

SL-465 (FAA)

YAKIMA, WASHINGTON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 9: Turn left, thence....

TAKE-OFF RUNWAY 22: Turn right, thence....

TAKE-OFF RUNWAY 27: Climb runway heading, thence....

....Intercept and proceed via YKM R-250 to the GROMO DME Fix (YKM R-250/9), thence via (assigned transition).

GUBSE TRANSITION (GROMO2.GUBSE): From over GROMO DME Fix via 9 DME Arc and V25 to GUBSE DME Fix.

HITCH TRANSITION (GROMO2.HITCH): From over GROMO DME Fix via 9 DME Arc and V468 to HITCH DME Fix. NOTE: Climb in holding pattern NE of HITCH DME Fix, right turns, 206° inbound to 8000 feet before proceeding on course.

PAPPS TRANSITION (GROMO2.PAPPS): From over GROMO DME Fix via 9 DME Arc and V204 to PAPPS INT.

SIMCO TRANSITION (GROMO2.SIMCO): From over GROMO DME Fix via 9 DME Arc and V448 to SIMCO INT. NOTE: Climb in holding pattern NE of SIMCO INT, right turns, 221° inbound to 12000 feet before proceeding on course.

SUNED TRANSITION (GROMO2.SUNED): From over GROMO DME Fix via 9 DME Arc and V4 to SUNED INT.

TAMPO TRANSITION (GROMO2.TAMPO): From over GROMO DME Fix via V204 to TAMPO INT. NOTE: Climb in holding pattern east of TAMPO INT, right turns, 250° inbound to 8000' before proceeding on course.

ILS Y RWY 27

MALSR

2900 ↑	4600 ↗	YKM ⬡ 116.0				
CATEGORY	A	B	C	D		
S-ILS 27	1668-1 ³ / ₄ 600 (600-1 ³ / ₄)					
CIRCLING	1680-2 ¹ / ₄	581 (600-2 ¹ / ₄)	1700-2 ¹ / ₄ 601 (700-2 ¹ / ₄)	1800-2 ¹ / ₄ 701 (800-2 ¹ / ₄)		

NW-1. 14 JAN 2010 to 11 FEB 2010

MIRL Rwy 4-22
HIRL Rwy 9-27 **L**
REIL Rwy 4, 9, and 22

ILS Z RWY 27

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

MISSED APPROACH: Climb to 2600, then climbing right turn to 4600 direct YKM VORTAC and hold, continue climb-in-hold to 4600.

2600 ↑	4600 ↗	YKM ⬡ 116.0	LOM 3382	094°	Remain within 10 NM
				274°	4300
				3800	GS 3.00° TCH 57
			7 NM		
CATEGORY	A	B	C	D	

MIRL Rwy 4-22 HIRL Rwy 9-27 L REIL Rwy 4, 9, and 22	CIRCLING				
	S-ILS 27	**1268/24 200 (200-½)			
	CIRCLING	1640-1 541 (600-1)	1660-1 561 (600-1)	1700-1¾ 601 (700-1¾)	1800-2¼ 701 (800-2¼)

LOC/DME BC-B
YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

MISSED APPROACH: Climb to 4600 via YKM VORTAC R-252 to YKM VORTAC and hold, continue climb-in-hold to 4600.

NW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 1099

D

TWR 1159

1113

1114 $\pm$

1119 $\pm$

-0.7% UP

-0.5% UP

7604 X 150

3835 X 150

A6

MIRA Rwy 4-22

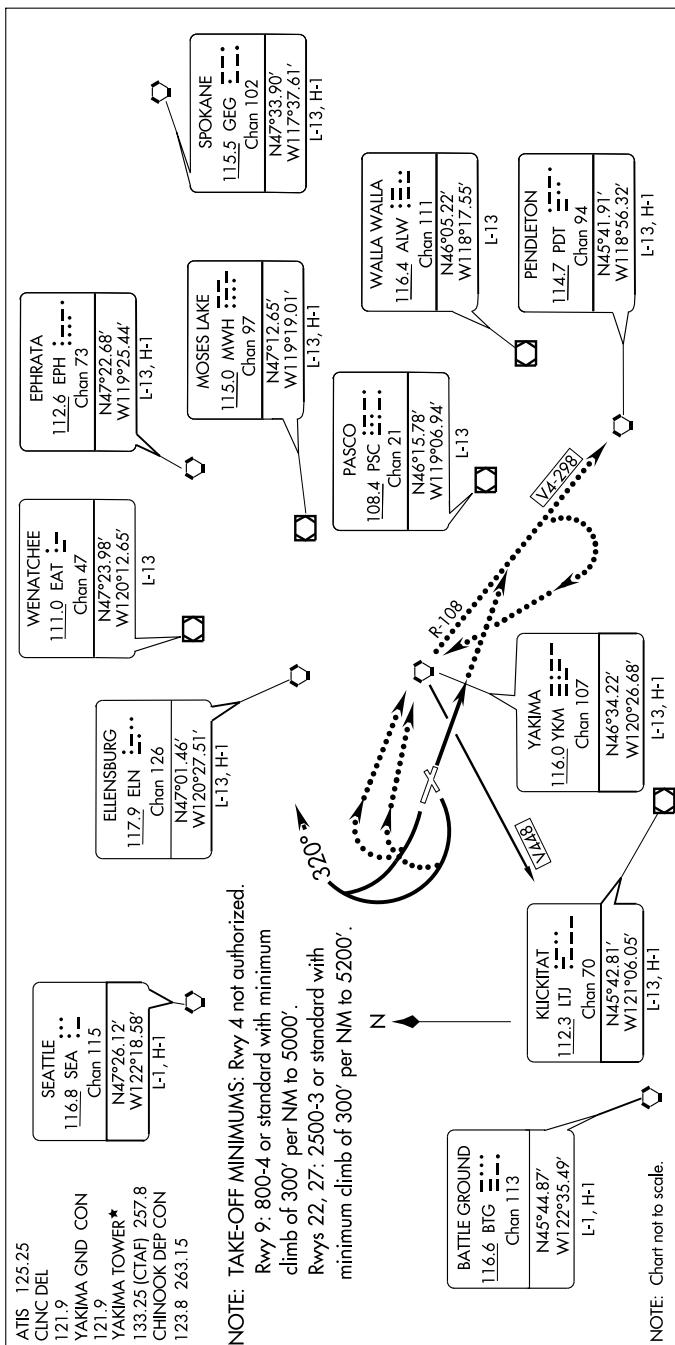
MIRA Rwy 9-27

REIL Rwys 4, 9, and 22

NACHES ONE DEPARTURE

SL-465 (FAA)

YAKIMA, WASHINGTON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Runway heading for vector to assigned route/fix. Thence

TAKE-OFF RUNWAY 22 and 27: Turn right heading 320° for vector to assigned route/fix. Thence

.... Maintain 10,000' or assigned lower altitude. Expect clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received for one minute after departure: Rwy 9 climb runway heading and outbound YKM VORTAC R-108, Rwy 22, climbing right turn direct YKM VORTAC and outbound YKM VORTAC R-108, Eastbound V4-V298 climb on course, other departures continue climb on YKM R-108 until reaching assigned altitude, (southwestbound V448 continue minimum climb of 300' per NM to 9500') then climbing right turn direct YKM VORTAC. Cross YKM VORTAC at or above MEA or MCA for route of flight.

APP CRS	Rwy Idg	7604
264°	TDZE	1068
	Apt Elev	1099

RNAV (GPS) Y RWY 27

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKMA)

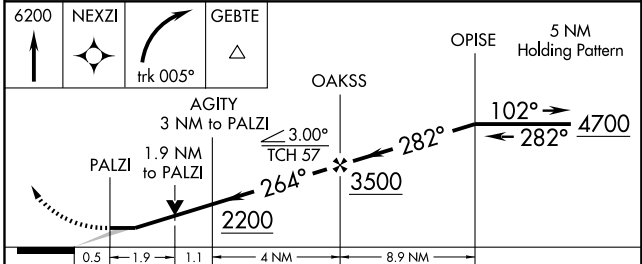
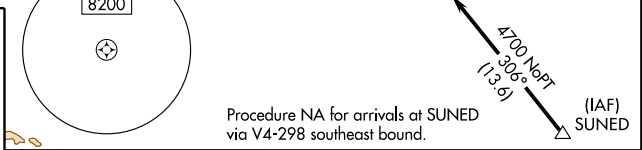
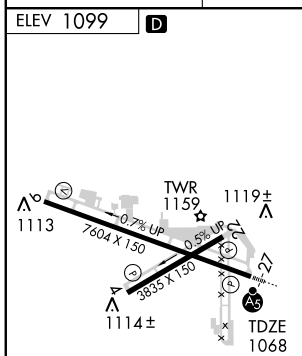
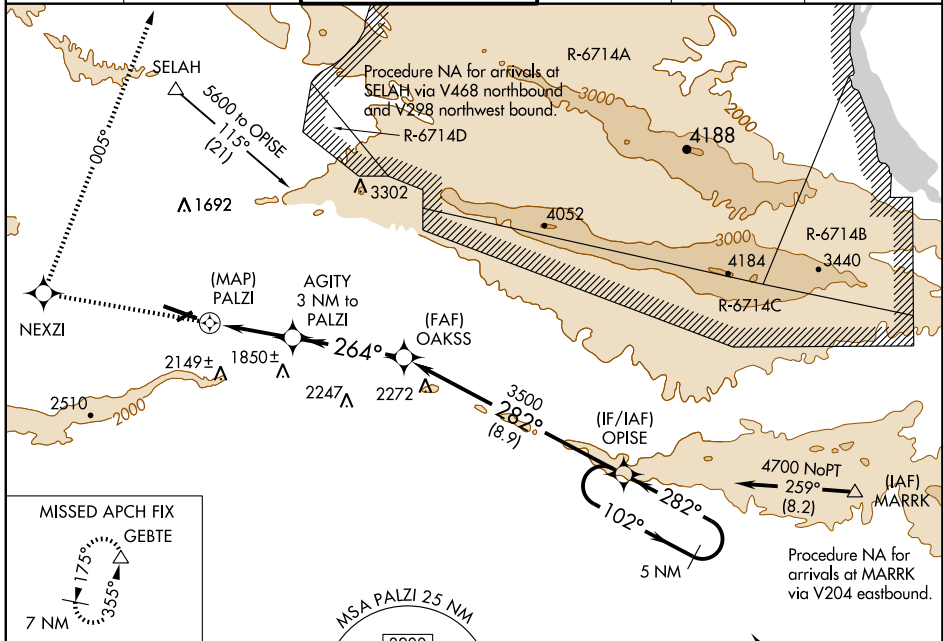
▼ When local altimeter setting not received, procedure NA. Circling NA south of Rwy 9/27. DME/DME RNP-0.3 NA. For inoperative MALSR increase LNAV Cat A visibility to RVR 5000.

MALSR



MISSED APPROACH: Climb to 6200 direct NEXZI and right turn via track 005° to GEBTE and hold, continue climb-in-hold to 6200.

ATIS 125.25	CHINOOK APP CON ★ 123.8 263.15	YAKIMA TOWER ★ 133.25 (CTAF) 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95
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MIRL Rwy 4-22
HIRL Rwy 9-27 **1**
REIL Rwy 4, 9, and 22

CATEGORY	A	B	C	D
LNAV MDA	1880/40	812 (800-¾)	1880-2 812 (800-2)	1880-2¼ 812 (800-2¼)
CIRCLING	1880-1 781 (800-1)	1880-1¼ 781 (800-1¼)	1880-2½ 781 (800-2½)	1880-2¾ 781 (800-2¾)

WAAS CH 90512 W27A	APP CRS 274°	Rwy Idg TDZE Apt Elev	7604 1068 1099
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RNAV (GPS) Z RWY 27

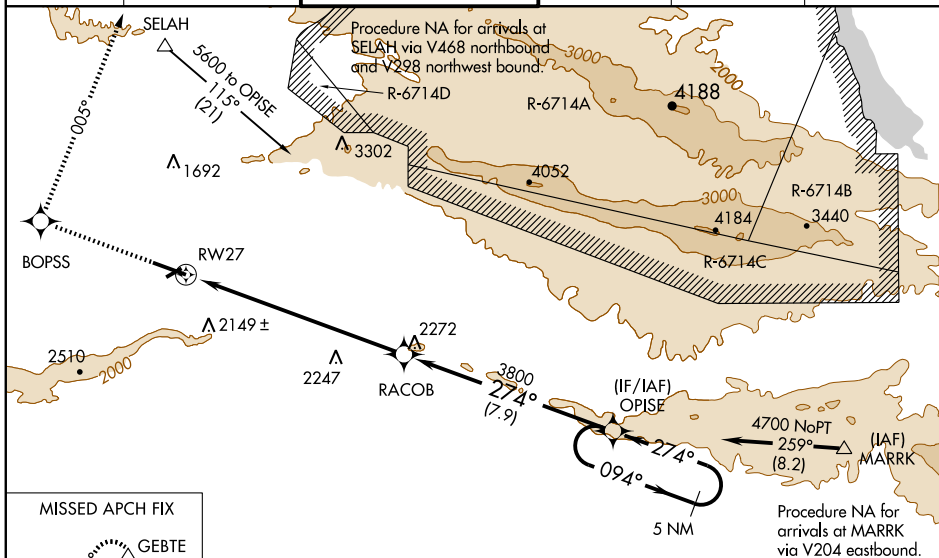
YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

When local altimeter setting not received, procedure NA.
Circling NA south of Rwy 9/27. DME/DME RNP-0.3 NA.
For inoperative MALSR increase LPV all Cats visibility to
RVR 5000. Circling requires descent on glidepath to CMDA.

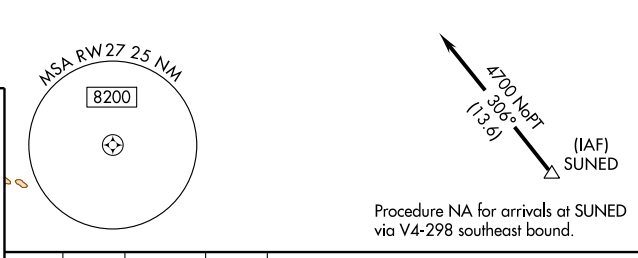
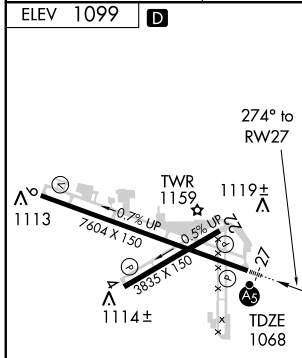


MISSED APPROACH: Climb to 6200 direct
BOPSS and right turn via track 005° to GEBTE
and hold, continue climb-in-hold to 6200.

ATIS 125.25	CHINOOK APP CON ★ 123.8 263.15	YAKIMA TOWER ★ 133.25 (CTAF) 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95
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ELEV 1099	D
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6200

↑

BOPSS

✱

GEBTE

△

5 NM Holding Pattern

trk 005°

RW27

RACOB

OPISE

094° →

← 274°

4700

274°

3800

GS 3.00°

TCH 57

8.3 NM

7.9 NM

CATEGORY

A

B

C

D

LPV DA

1329/24

261 (300-½)

CIRCLING

1640-1
541 (600-1)

1660-1
561 (600-1)

1700-1¾
601 (700-1¾)

1800-2¼
701 (800-2¼)

VORTAC YKM 116.0 Chan 107	APP CRS 251°	Rwy Idg TDZE Apt Elev N/A N/A 1099
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VOR-A

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

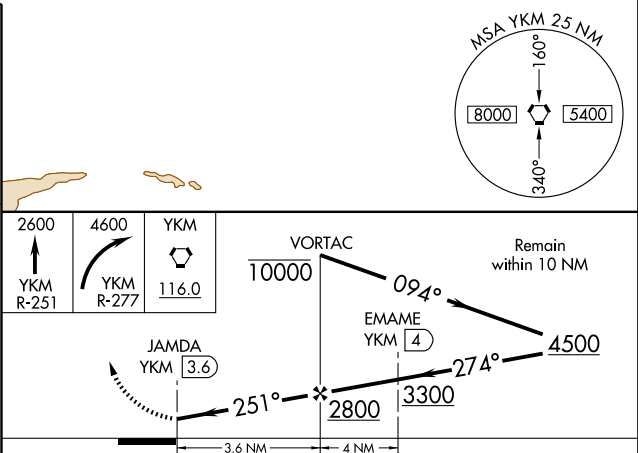
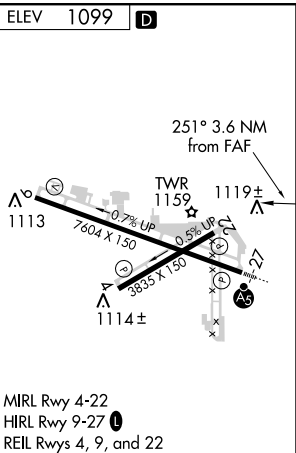
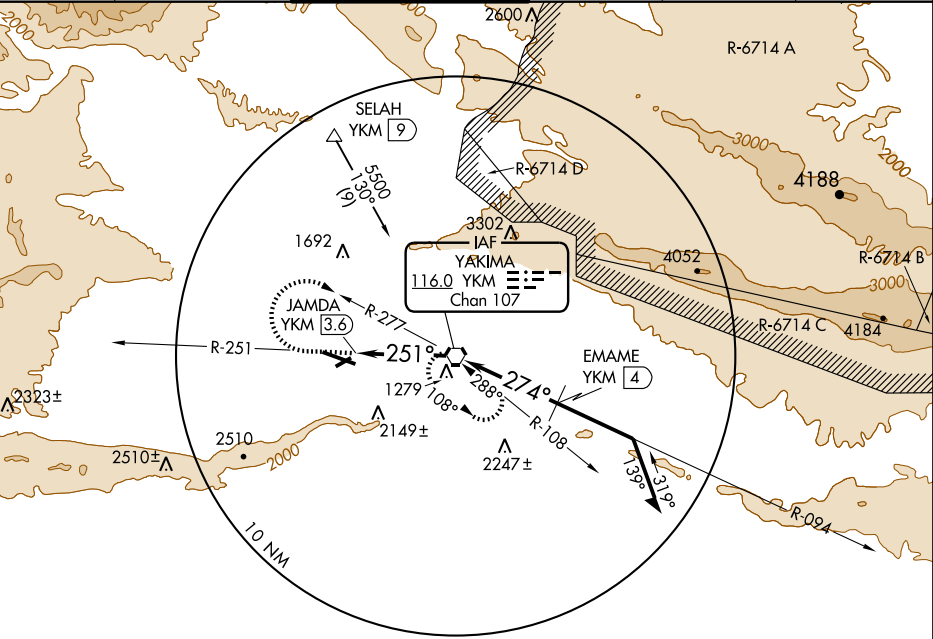
▼ DME required.

▲ Circling not authorized South of Rwy 9-27.

When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 2600 via YKM VORTAC R-251 then climbing right turn to 4600 via YKM VORTAC R-277 to YKM VORTAC and hold, continue climb-in-hold to 4600.

ATIS 125.25	CHINOOK APP CON★ 123.8 263.15	YAKIMA TOWER★ 133.25 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95
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	FAF to MAP 3.6 NM					CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1840-1 741 (800-1)	1840-1¼ 741 (800-1¼)	1840-2¼ 741 (800-2¼)	1840-2½ 741 (800-2½)
Min:Sec	3:36	2:24	1:48	1:26	1:12					

NW-1. 14 JAN 2010 to 11 FEB 2010

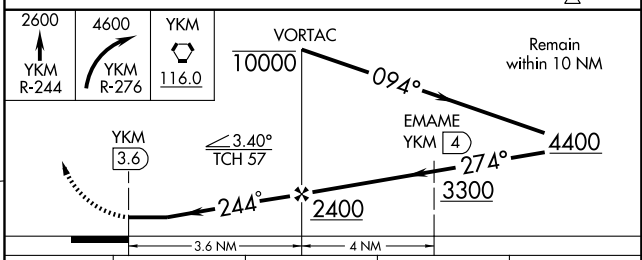
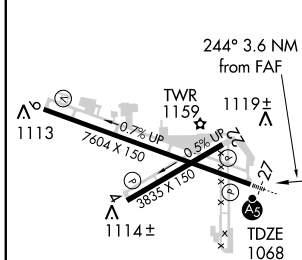
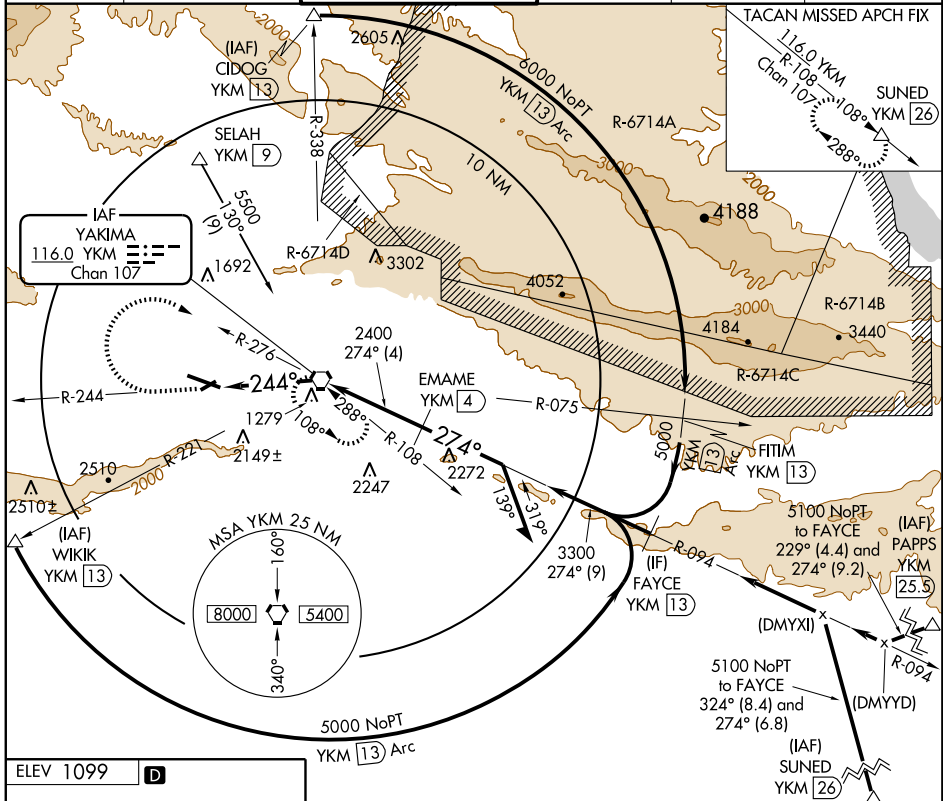
VORTAC YKM	APP CRS	Rwy Idg TDZE	7604
116.0	244°	1068	
Chan 107		Apt Elev	1099

VOR/DME or TACAN RWY 27

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

⚠ Inoperative table does not apply. Circling NA south of Rwy 9-27. When local altimeter setting not received, procedure NA.	MALSR 	MISSED APPROACH: Climb to 2600 via YKM VORTAC R-244, then climbing right turn to 4600 via YKM VORTAC R-276 to YKM VORTAC and hold, continue climb-in-hold to 4600 (TACAN aircraft, continue climb to 5000 via YKM VORTAC R-108 to SUNED/YKM 26 DME and hold west, right turns, 108° inbound).
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ATIS	CHINOOK APP CON *	YAKIMA TOWER *	GND CON	CLNC DEL	UNICOM
125.25	123.8 263.15	133.25 (CTAF) 257.8	121.9	121.9	122.95



MIRL Rwy 4-22
HIRL Rwy 9-27
REIL Rws 4, 9, and 22

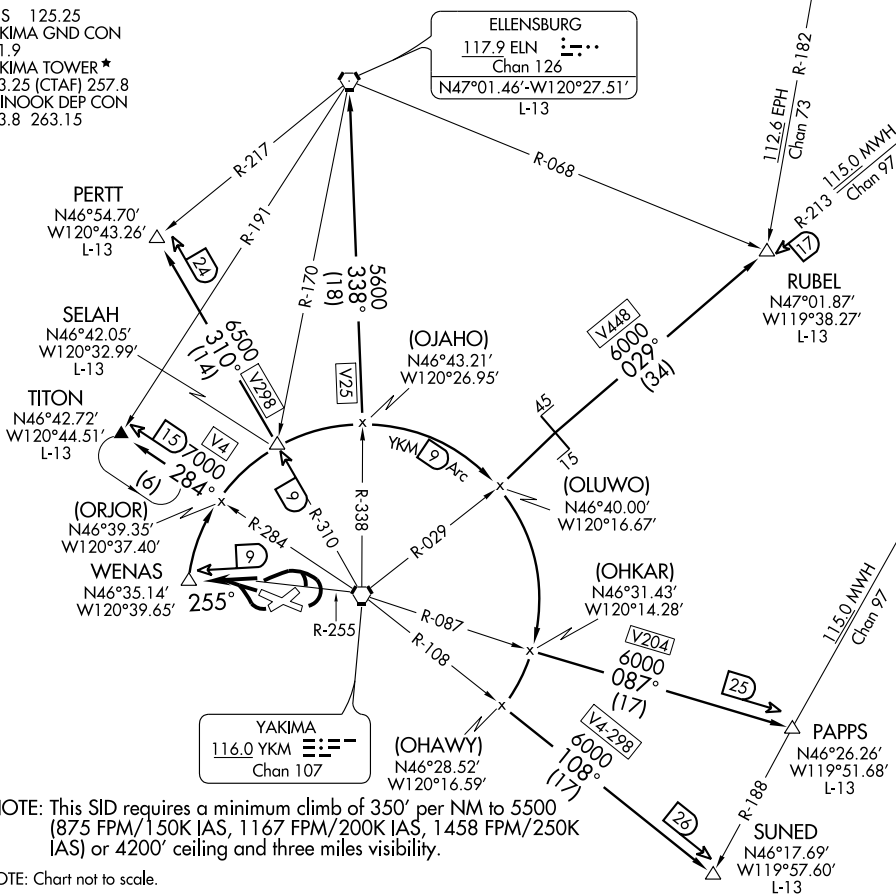
CATEGORY	A	B	C	D
S-27	2100/60 1032 (1100-1¼)	2100-1½ 1032 (1100-1½)	2100-3	1032 (1100-3)
CIRCLING	2100-1¼ 1001 (1100-1¼)	2100-1½ 1001 (1100-1½)	2100-3	1001 (1100-3)

WENAS FIVE DEPARTURE

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)
SL-465 (FAA)

YAKIMA, WASHINGTON

ATIS 125.25
YAKIMA GND CON
121.9
YAKIMA TOWER ★
133.25 (CTAF) 257.8
CHINOOK DEP CON
123.8 263.15



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 9: Turn left thence...

TAKE-OFF RUNWAY 22: Turn right thence....

TAKE-OFF RUNWAY 27: Climb runway heading thence....

....Intercept and proceed via YKM R-255 to the WENAS DME Fix (YKM 255/9) thence via (assigned transition).

ELLENSBURG TRANSITION (WENAS5.ELN): From over WENAS DME Fix via 9 DME Arc and V25 to ELN VORTAC.

PAPPS TRANSITION (WENAS5.PAPPS): From over WENAS DME Fix via 9 DME Arc and V204 to PAPPS INT.

PERTT TRANSITION (WENAS5.PERTT): From over WENAS DME Fix via 9 DME Arc and V298 to PERTT INT.

RUBEL TRANSITION (WENAS5.RUBEL): From over WENAS DME Fix via 9 DME Arc and V448 to RUBEL INT.

SELAH TRANSITION (WENAS5.SELAH): From over WENAS DME Fix via 9 DME Arc to SELAH INT.

SUNED TRANSITION (WENAS5.SUNED): From over WENAS DME Fix via 9 DME Arc and V4 to SUNED INT.

TITON TRANSITION (WENAS5.TITON): From over WENAS DME Fix via 9 DME Arc and V4 to TITON INT.

NOTE: Climb in holding pattern Southeast of TITON INT, left turns, 284° inbound to 7000 feet before proceeding on course.

YAKIMA FIVE DEPARTURE

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)
SL-465 (FAA)

YAKIMA, WASHINGTON

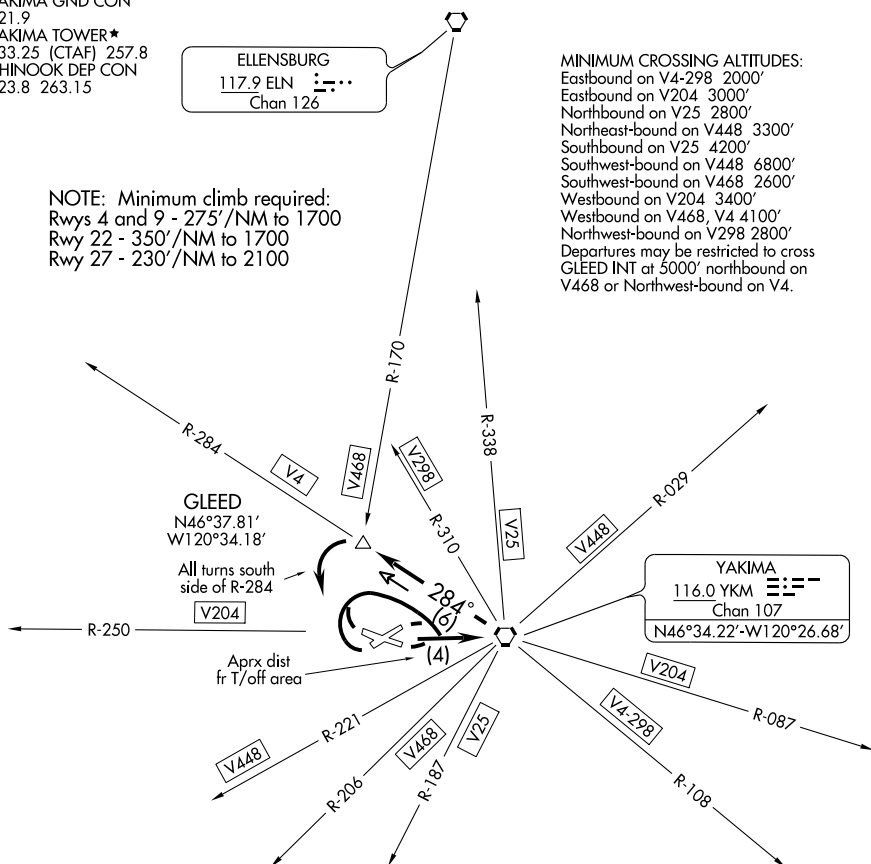
ATIS 125.25
YAKIMA GND CON
121.9
YAKIMA TOWER★
133.25 (CTAF) 257.8
CHINOOK DEP CON
123.8 263.15

ELLENSBURG
117.9 ELN 
Chan 126

NOTE: Minimum climb required:
Rwys 4 and 9 - 275'/NM to 1700
Rwy 22 - 350'/NM to 1700
Rwy 27 - 230'/NM to 2100

MINIMUM CROSSING ALTITUDES:

Eastbound on V4-298 2000'
Eastbound on V204 3000'
Northbound on V25 2800'
Northeast-bound on V448 3300'
Southbound on V25 4200'
Southwest-bound on V448 6800'
Southwest-bound on V468 2600'
Westbound on V204 3400'
Westbound on V468, V4 4100'
Northwest-bound on V298 2800'
Departures may be restricted to cross
GLEED INT at 5000' northbound on
V468 or Northwest-bound on V4.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 22 or 27: Turn right, thence....

TAKE-OFF RUNWAY 9: Turn left, thence....

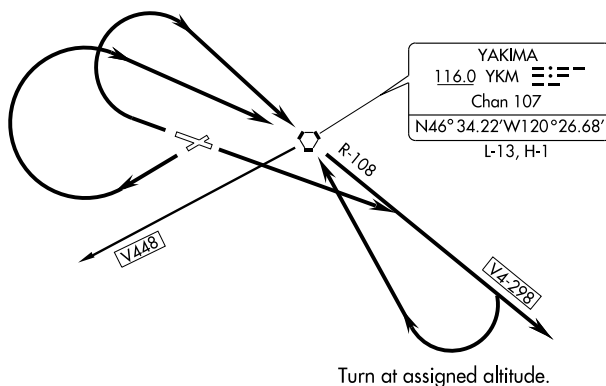
....Climb direct YKM VORTAC. Continue climb on YKM R-284 between the VORTAC and GLEED INT., all turns south of the 284 radial, to cross YKM VORTAC at or above (minimum crossing altitudes). Thence via (assigned route).

ATIS 125.25
 CLNC DEL
 121.9
 YAKIMA GND CON
 121.9
 YAKIMA TOWER ★
 133.25 (CTAF) 257.8
 CHINOOK DEP CON
 123.8 263.15

NOTE: TAKE-OFF MINIMUMS: Rwy 4 not authorized.

Rwy 9: 800-4 or standard with a minimum
 climb of 300' per NM to 5000'.

Rwys 22 and 27: 2500-3 or standard with minimum
 climb of 300' per NM to 5200'.



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climb runway heading and outbound YKM R-108. Thence....

TAKE-OFF RUNWAYS 22 and 27: Climbing right turn direct YKM VORTAC and outbound R-108. Thence....

..... Eastbound aircraft V4-298 continue climb on course, other departures continue climb on YKM R-108 until reaching assigned altitude, (Southwestbound V448 continue minimum climb of 300' per NM to 9500'), then climbing right turn direct YKM VORTAC. All aircraft cross YKM VORTAC at or above MEA or MCA for route of flight.

INSTRUMENT APPROACH PROCEDURE CHARTS



IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

¹NA when local weather not available.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Category C, 800-2¾; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

¹Category D, 800-2¾.

²NA when local weather not available.

³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

¹Categories A,B, 1100-2; Categories C,D,
1100-3.

²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

¹NA when local weather not available.

²Category D, 900-2¾.

³Categories A,B, 1900-2; Categories C,D,
1900-3.

⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¾.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

¹Category D, 800-2¾.

²Categories A,B,C,D, 800-2¾.

³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L¹
RNAV (GPS) Y Rwy 10R²
RNAV (GPS) Y Rwy 28L²
VOR/DME or TACAN Rwy 10L¹
VOR/DME or TACAN Rwy 28L¹

¹Category E, 900-3.

²Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¾; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL .. RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹

NA when local weather not available.

¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY RNAV (GPS) Rwy 31¹
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2½.

²Category C, 800-2¼; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI VOR-A
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL NDB Rwy 10¹
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI VOR Rwy 30
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY ILS Y Rwy 15¹
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL ILS or LOC Rwy 3
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2¼; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2¼; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD ILS or LOC Rwy 27¹
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL RNAV (GPS) Rwy 22¹
VOR or GPS-A²

¹Category C, 800-2¼; Category D, 200-2¼.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD ILS or LOC/DME Rwy 5
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI VOR-A
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK RNAV (GPS) Rwy 34
NA when local weather not available.

DILLON, MT

DILLON VOR or GPS-A,1500-3
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY VOR Rwy 29
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND RNAV (GPS)-A
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD RNAV (GPS) Rwy 25¹
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2¼.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI RNAV (GPS) Rwy 3¹
RNAV (GPS) Rwy 21²
VOR/DME Rwy 3¹
VOR Rwy 21¹

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2¼; Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD ILS or LOC/DME Z Rwy 16R¹
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L^{1,2}
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2¼;
Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD ILS or LOC/DME Rwy 23
Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) ILS or LOC/DME Rwy 16R
NA when control tower closed.
NA when local weather not available.

FORT BENTON, MT

FORT BENTON RNAV (GPS) Rwy 23
NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY ILS or LOC Rwy 34^{1,2}
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2¼;
Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¼; Category D,
1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¼; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL VOR Rwy 12
Categories A,B, 900-2; Categories C,D, 900-3.
VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY NDB or GPS Rwy 12,900-2¾

GOODING, ID

GOODING MUNI RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA NDB Rwy 15
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL NDB Rwy 34
Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY RNAV (GPS)-A
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL RNAV (GPS) W Rwy 31
Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY VOR Rwy 26
Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁵
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷⁹
 VOR-A⁸
 VOR/DME-B⁵

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY

JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

NAME ALTERNATE MINIMUMS

JEROME, ID

JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KLAMATH FALLS, OR

KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2½.

LEWISTON, ID

LEWISTON-NEZ PERCE
 COUNTY ILS Rwy 26¹²
 RNAV (GPS) Rwy 8³
 RNAV (GPS) Rwy 12³
 RNAV (GPS) Rwy 26³
 VOR Rwy 8⁴
 VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI RNAV (GPS) Rwy 7
 VOR Rwy 7

Category D, 800-2½.

NAME ALTERNATE MINIMUMS

LIVINGSTON, MT

MISSION FIELD **VOR/DME-B¹**
VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²Categories A, B, 2200-2; Categories C,D,
2200-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI **ILS or LOC Rwy 22**
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2¼.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD **ILS or LOC/DME Rwy 14¹²**
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D,
900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D,
2300-3.

⁴Categories A, B, 1100-2; Categories C, D,
1100-3.

⁵Categories A, B, 1400-2; Category C, D
1400-3.

MISSOULA, MT

MISSOULA INTL **ILS Rwy 11¹**
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11², 800-2½
VOR/DME or GPS-A, 2000-3
VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D,
1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... **ILS or LOC Rwy 32R¹**
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

NAME ALTERNATE MINIMUMS

NEWCASTLE, WY

MONDELL FIELD **VOR or GPS Rwy 31**
NA except for operators with approved weather
reporting service.
Categories A,B, 900-2; Categories C,D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL **ILS or LOC Rwy 4¹**
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS, Categories A,B, 800-2; Category C, 900-
2¼, Category D, 1000-3. LOC, Category C,
900-2¼, Category D, 1000-3.

²Category C, 900-2¼; Category D, 1000-3.

³Categories A,B, 1100-2; Categories C,D,
1100-3.

⁴Categories C,D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG **RNAV (GPS) Rwy 7**
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL **ILS or LOC Rwy 17¹²**
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²³
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

³Category D, 800-2¼.

ONTARIO, OR

ONTARIO MUNI **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available.

PASCO, WA

TRI-CITIES **ILS or LOC Rwy 21R¹²**
RNAV (GPS) Rwy 3L
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 21R
RNAV (GPS) Rwy 30
VOR Rwy 21R³
VOR/DME Rwy 30

NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D,
700-2¼. LOC, Category D, 800-2¼.

³Category D, 800-2¼.

²NA when Rawlins FSS closed.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY **RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

ROCK SPRINGS, WY

ROCK SPRINGS SWEETWATER
COUNTY **VOR-B**
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

MCNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2¾; Category D, 800-2½. LOC, Category C, 800-2¾; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK **VOR/DME or GPS-A**
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½;
Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾;
Category D, 1000-3.

⁵Categories A, B, C, D, 800-2¾.

SHERIDAN, WY

SHERIDAN
COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2¾.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2¾.

²Categories C, D, 800-2½.

SPOKANE, WA

FELTS FIELD **ILS/DME Rwy 21R¹**
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L³

¹Categories A, B, 1000-2; Category C, 1000-2¾.

²Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

³Categories A, B, 1000-2; Categories C, D, 1000-3

SPOKANE INTL **ILS or LOC Rwy 3¹**
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

¹ILS, Category D, 700-2.

²Category E, 800-2½.

RADAR INSTRUMENT APPROACH MINIMUMS

CHEYENNE, WY

Amdt 1B, MAY 8, 2008 (FAA)

ELEV 6159

CHEYENNE RGNL/JERRY OLSON FIELD

RADAR - 124.55 263.075  NA

				DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS		DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS
PAR	27	3.0°/55/918	ABCDE	6321/24	200 (200-½)			
ASR	9		ABC	6500-1	357 (400-1)	DE	6500-1¼	357 (400-1¼)
	27		ABC	6520/24	399 (400-½)	DE	6520/50	399 (400-1)
CIR	ALL		AB	6660-1	501 (600-1)	C	6660-1½	501 (600-1½)
			D	6720-2	561 (600-2)	E	6960-2¾	801 (900-2¾)

For inoperative MALSR increase, PAR 27 category E visibility to RVR 4000, ASR 27 category D visibility to RVR 6000 and ASR 27 category E visibility to 1½. PAR not available when ASR out of service.

GRAY AAF (KGRF), FORT LEWIS, WA (09155 USA)

ELEV 300

RADAR - (E) 128.2 139.925 239.0 317.4  NA

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR ¹³	15	3.0°/55/947	ABCD	499/40	200	(200-¾)
	33 ²	3.0°/39/730	ABCD	500-¾	200	(200-¾)

¹Opr Mon-Fri 1600-0759Z++, exc federal holidays. POC DSN 357-4953 or C253-967-4953. Svc incl PAR and apch mnt of ILS and NDB. ²PAR not authorized when R6703D is active. ³Circling not authorized.

OPS 138.6

Contact Seattle approach for vectors to Final on 120.1 290.9

Missed Approach:

Rwy 15: Climb to 700, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 700, then climbing left turn to 2000 direct GR LOM and hold NW, RT, 147° inbound (ADF REQUIRED).

Rwy 33: Climb to 700, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 2000 direct GR LOM and hold NW, RT, 147° inbound (ADF REQUIRED).

LOST COMMUNICATIONS (ALL RWYS): As directed by ATC on initial contact.

RADAR INSTRUMENT APPROACH MINIMUMS**OAK HARBOR (OKH), WA**

Amdt 1A, Mar 12, 2009 (FAA)

ELEV 193**A J EISENBERG****RADAR - 118.2 285.65 ▽ ▲ NA**

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HATH/ HAA</u>	<u>CEIL-VIS</u>
ASR	7		AB CD	620-1 NA	427	(500-1)
CIR	All Rwy		A B CD	620-1 660-1 NA	427 467	(500-1) (500-1)

When local altimeter setting not received, use Whidbey Island NAS altimeter setting and increase all MDAs 40 feet. Circling north of Rwy 7-25 NA at night. Visibility reduction by helicopters NA.

RADAR INSTRUMENT APPROACH MINIMUMS

WHIDBEY ISLAND NAS (KNUW), (AULT FLD) WA (09071 USN)

ELEV 47

RADAR - (E) 126.05x 126.85x 266.8x 299.6x 310.8x 322.5x 327.0x 343.75x ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ¹	25 ^{2 3 10}	3.0°/40/718	ABCDE	228-½	200	(200-½)
	14 ^{5 11}	3.0°/49/947	ABCDE	139-¼	100	(100-¼)
	7	3.0°/50/961	ABCDE	125-½	100	(100-½)
	32 ^{2 10}	3.0°/34/776	ABCDE	147-¼	100	(100-¼)
W/O GS	25 ^{3 6}		ABC	480-¾	452	(500-¾)
			DE	480-1	452	(500-1)
	14 ^{7 11}		AB	340-½	301	(300-½)
			CDE	340-¾	301	(300-¾)
	7		ABCDE	300-1	275	(300-1)
	32 ^{8 10}		ABC	500-¾	453	(500-¾)
			DE	500-1	453	(500-1)
ASR	7		AB	440-1	415	(400-1)
			CD	440-1¼	415	(400-1¼)
			E	440-1½	415	(400-1½)
	14 ^{4 11}		AB	600-½	561	(600-½)
			C	600-1	561	(600-1)
			D	600-1¼	561	(600-1¼)
			E	600-1½	561	(600-1½)
	32 ^{8 11}		AB	680-½	633	(700-½)
			C	680-1¼	633	(700-1¼)
			D	680-1½	633	(700-1½)
			E	680-1¾	633	(700-1¾)
	25 ⁴		AB	760-½	732	(800-½)
			C	760-1½	732	(800-1½)
			D	760-1¾	732	(800-1¾)
			E	760-2	732	(800-2)
CIR ⁹			A	780-1	733	(800-1)
			B	800-1¼	753	(800-1¼)
			C	800-2¼	753	(800-2¼)
			D	860-2¾	813	(900-2¾)
			E	1100-3	1053	(1100-3)

¹No-NOTAM MP: PAR 1600-0800Z++ Mon. ²When ALS inop, increase vis CAT ABCDE to ¾ mile.

³Caution: Trees 265' MSL, 3270' from THLD, 1647' right of RCL. ⁴When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1¼ miles, CAT D to 2 miles, CAT E to 2¼ miles. ⁵When ALS inop, increase CAT ABCDE vis to ½ mile. ⁶When ALS inop, increase vis CAT ABC to 1¼ miles, CAT DE to 1½ miles. ⁷When ALS inop, increase vis CAT ABCDE to 1 mile. ⁸When ALS inop, increase vis CAT ABC to 1¼ mile, CAT DE to 1½ mile. ⁹When CIRCLING to RWY 25 or 32, increase vis CAT A to 1¼ mile. ¹⁰Amdt 2. ¹¹Amdt 1.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI
DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.
Rwy 34, turn left. All aircraft climb direct CVO VOR/
DME and continue climb in CVO VOR/DME holding
pattern, (E, right turns, 261° inbound) to cross CVO
VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417'
per NM to 9000, or 2800-3 for climb in visual conditions.
Rwy 16, std. w/min. climb of 321' per NM to 10200, or
2800-3 for climb in visual conditions. **Rwy 22**, NA-
obstacles. **Rwy 34**, std. w/min. climb of 369' per NM to
9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing right
turn to 10200 via heading 130° and CPN VOR/DME R-
340 to CPN VOR/DME, continue climb-in-hold to 10200
(north, left turn, 166° inbound), or for climb in visual
conditions, cross Bowman Field Airport at or above 7700
then proceed via CPN R-309 to CPN VOR/DME,
continue climb-in-hold to 10200 (north, left turn, 166°
inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 16, climbing left turn to 10200 via heading 100° and
CPN VOR/DME R-335 to CPN VOR/DME, continue
climb-in-hold to 10200 (north, left turn, 166° inbound), or
for climb in visual conditions, cross Bowman Field
Airport at or above 7700 then proceed via CPN R-309 to
CPN VOR/DME, continue climb-in-hold to 10200 (north,
left turn, 166° inbound).

NOTE: **Rwy 16**, multiple trees beginning 865' from
departure end of runway, 243' left of centerline, up to 70'
AGL/5097' MSL. Rod on hangar 570' from departure
end of runway, 278' left of centerline, 54' AGL/5054'
MSL. Multiple trees beginning 787' from departure end
of runway, 165' right of centerline, up to 70' AGL/5098'
MSL. Multiple transmission lines beginning 4602' from
departure end of runway, 1664' right of centerline, 80'
AGL/5159' MSL. **Rwy 34**, multiple transmission lines
beginning 2242' from departure end of runway, 964' left
of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles.
DEPARTURE PROCEDURE: Use JATTS
DEPARTURE.

ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29,34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8,31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway,

163' left of centerline, up to 138' AGL/329' MSL. Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17**, NA. **Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8,13**, turn left.

Rwys 26,31,35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8,26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading 098° to 4600 before turning right.
NOTE: **Rwy 10L**, fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL (GOWEN FIELD)

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, turn left **Rwys 10L, 10R**, turn right. Climb on BOI R-214 within 20 NM to cross BOI VORTAC at or above MEA/MCA for direction of flight.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/ min. climb of 410' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 1**, Climbing right turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.
NOTES: **Rwy 1**, Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC.

Southbound aircraft: **Rwy 13**, climb straight ahead.

Rwy 31, turn right. All aircraft proceed via CZI R-319 to CZI VOR/DME.

BURLEY, ID

BURLEY MUNI

TAKE-OFF MINIMUMS: All runways, cross departure end of runway at or above 35' AGL.

DEPARTURE PROCEDURE: All runways, climb direct BURLEY (BYI) VOR/DME. Continue climb on R-305 within 10 miles to cross BYI VOR/DME: R-024 CW R-054 at or above 5500; R-055 CW R-240 at or above 8000; R-241 CW R-023 at or above 5900.

NOTE: **Rwy 2**, bridge 252' from departure end of runway, 513' left of centerline, 110' AGL/4195' MSL. Stack 2205' from departure end of runway, 857' right of centerline, 79' AGL/4236' MSL. Elevator 4092' from departure end of runway, 297' right of centerline, 133' AGL/4283' MSL. **Rwy 20**, antenna 523' from departure end of runway, 338' right of centerline, 43' AGL/4217' MSL. **Rwy 24**, tree 630' from departure end of runway, 521' right of centerline, 41' AGL/4215' MSL. Grain elevator 3106' from departure end of runway, 163' left of centerline, 137' AGL/4317' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR**BURNS MUNI**

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...

...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT**BERT MOONEY**

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL. **Rwy 29**, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6 379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID**CALDWELL INDUSTRIAL**

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY**CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)**

DEPARTURE PROCEDURE: **Rwys 3, 8, 12**, turn left.

All other runways, turn right. All aircraft climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA**CHEHALIS-CENTRALIA**

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY**CHEYENNE RGNL/JERRY OLSON FIELD**

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY**YELLOWSTONE RGNL**

TAKE-OFF MINIMUMS: **Rwy 4**, 1500-2 or std. with a min. climb of 250' per NM to 6800. **Rwy 22**, 1600-2 or std. with a min. climb of 340' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 4, 22**, turn left.

All aircraft climb direct COD VOR/DME. Climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above: COD R-350 CWR-170, 6000; or R-171 CWR-R-349, 11800.

COEUR D'ALENE, ID**COEUR D'ALENE-PAPPY BOYINGTON FLD**

TAKE-OFF MINIMUMS: **Rwy 5**, CAT A,B, 1700-2 or std. with a min. climb of 230' per NM to 4000. CAT C,D, 2600-2 or std. with a min. climb of 320' per NM to 5400.

DEPARTURE PROCEDURE: **Rwys 1, 5**, turn left, climb via COE R-005 to 5400, reverse course, continue climb direct COE VOR. **Rwy 19**, turn right. **Rwy 23**, turn left, climb via COE R-232 to 5000, reverse course, continue climb direct COE VOR.

COLSTRIP, MT**COLSTRIP (M46)****AMDT 2 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 6** use CISP (RNAV) DEPARTURE. **Rwy 24**, use CONUK (RNAV) DEPARTURE.

CONRAD, MT**CONRAD**

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR**CORVALLIS MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY**NORTH BIG HORN COUNTY**

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA**DEER PARK**

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 360' per NM to 5600.

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading; **Rwy 22**, climbing left turn to heading 130°; **Rwys 4, 34**, climbing right turn to heading 210°; **All aircraft** intercept and continue climb via the 170° bearing from DPY NDB to intercept GEG R-006 to GEG VORTAC.

DILLON, MT**DILLON**

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwesterly bound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY**CONVERSE COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CWR R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CWR R-199 9600; R-200 CWR R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID**DRIGGS-REED MEMORIAL (DIJ)****AMDT 2 08157 (FAA)**

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA**ORCAS ISLAND (ORS)****AMDT 1 09351 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENSBURG, WA**BOWERS FIELD**

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA**EPHRATA MUNI (EPH)****AMDT 3 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn...**Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.

Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing: FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.
DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER, 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMD T 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA

..... **Rwy 15**, 300-1***Rwy 33**, 300-1**

*Or standard with minimum climb of 430/NM to 500.
**Or standard with minimum climb of 380/NM to 600.

Rwy 15 climb runway heading to 700 then climbing left turn direct GR LOM. **Rwy 33** climb runway heading direct GR LOM. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GR LOM climb on course. All others continue climb in GR holding pattern (Hold NW, RT, 147° inbound) to cross GR LOM at or above: 071° CW 134° bearing from GR LOM, 8500'; 261° CW 329° bearing from GR LOM, 1500.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/ min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°.

All aircraft continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/ min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1¾ or std. w/ min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence... **Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence... **Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence... **Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)

AMDT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.

DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading. **All aircraft** climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2¾ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)

AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1¾ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 1200-2 or std. with a min. climb of 320' per NM to 1300.

DEPARTURE PROCEDURE: Departure procedure limited to CAT A,B aircraft. **Rwy 30**, climb straight ahead to 1500 then climbing right turn direct LSO NDB. Continue climb in holding pattern (N, right turns, 171° inbound) to cross LSO NDB at or above 3000 direct BTG VORTAC or MEA for route of flight.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4,10,22,28**, NA- Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/ DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/ DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400.

Rwy 32, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14,25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800.

Rwy 30, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12,16**, climbing left turn direct LGD NDB, thence; **Rwys 30,34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKVR-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKVR-148 then via LKVR-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12,21**, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.
DEPARTURE PROCEDURE: **Rwy 22**, turn left.
All aircraft climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12, 900-2** or std. with a min. climb of 220' per NM to 6200.
DEPARTURE PROCEDURE: **Rwys 2, 30** turn left. **Rwys 7, 12, 20**, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.
Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.
NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.
Rwy 15, use EYSE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-
Environmental.
DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

ORIG-A 09043 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 298' per NM to 3900 or 1100-2 ½ for climb in visual conditions. **Rwy 22**, std. w/ a min. climb of 281' per NM to 3900 or 1100-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...
Rwy 22, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...
... for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.
DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD AFB (KTCM)

TACOMA, WA 09127

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windscock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11, 70'** AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400.
Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. **All aircraft** climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/ 4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/ 4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1. DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL. **Rwy 29**, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL. **Rwy 28R**, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. **All aircraft** climb via BTGR-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. **All aircraft** climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 28, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.

DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climbing heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thenceClimb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/ min. climb of 310' per NM to 700. **Rwy 19**, std. w/ min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/ min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence... **Rwy 8**, climbing right turn direct PSC VOR/DME, thence... **Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence... **Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence... climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL

DEPARTURE PROCEDURE: Aircraft departing RIW R-280 CW R-170 climb on course. All others climb to 6600, then continue climb direct RIW VOR/DME to cross RIW VOR/DME at or above 7500 before proceeding on course.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY

DEPARTURE PROCEDURE: Climb direct OCS VORTAC. Aircraft departing OCS R-205 CW R-170 climb on course. All others climb in the OCS holding pattern (E, right turns, 260° inbound) to cross OCS VORTAC at or above 7300.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL. **Rwy 13R**, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL.

Rwy 11, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
...1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
...climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD

TAKE-OFF MINIMUMS: **Rwys 3L, 3R**, std. w/ min. climb of 400' per NM to 3600, or 1600-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 360' per NM to 3100, or 1600-3 for climb in visual conditions. **Rwy 21R**, std. w/ min climb of 375' per NM to 3100, or 1600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course. **Rwys 21L, 21R**, climb to 2800, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course.

NOTE: **Rwy 3L**, multiple trees beginning 5000' from departure end of runway, 530' left of centerline, up to 104' AGL/2513' MSL. Tree 1854' from departure end of runway, 773' right of centerline, 54' AGL/2030' MSL, tree 2365' from departure end of runway, 798' right of centerline, 61' AGL/2037' MSL. **Rwy 3R**, multiple trees beginning 5016' from departure end of runway, 1033' left of centerline, up to 104' AGL/2529' MSL, pole 2.5 NM from departure end of runway, 2059' left of centerline, 62' AGL/2454' MSL, hangar 92' from departure end of runway, 341' right of centerline, 5' AGL/1967' MSL, NDB 925' from departure end of runway, 270' right of centerline, 25' AGL/1987' MSL, multiple trees beginning 1870' from departure end of runway, 271' right of centerline, up to 128' AGL/3560' MSL. **Rwy 21L**, pole 316' from departure end of runway, 302' left of centerline, 33' AGL/1992' MSL, tree 926' from departure end of runway, 362' left of centerline, 50' AGL/2006' MSL, building 1057' from departure end of runway, 158' left of centerline, 19' AGL/1975' MSL, building 1061' from departure end of runway, 110' left of centerline, 19' AGL/1975' MSL. Elevator 4080' from departure end of runway, 598' left of centerline, 134' AGL/2080' MSL. **Rwy 21R**, hangar 204' from departure end of runway, 496' left of centerline, 13' AGL/1969' MSL, pole 659' from departure end of runway, 404' left of centerline, 26' AGL/1979' MSL, building, 946' from departure end of runway, 230' left of centerline, 24' AGL/1973' MSL, pole 1399' from departure end of runway, 2' left of centerline, 33' AGL/1982' MSL, elevator 2655' from departure end of runway, 1097' left of centerline, 134' AGL/2080' MSL, tree 189' from departure end of runway, 511' right of centerline, 46' AGL/1979' MSL, tree 480' from departure end of runway, 404' right of centerline, 43' AGL/1979' MSL, pole 1252' from departure end of runway, 55' right of centerline, 29' AGL/1975' MSL, pole 1427' from departure end of runway, 13' right of centerline, 33' AGL/1982' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSO R-163. **Rwy 30**, do not exceed 210 knots until established on MSO R-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSO R-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500. DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26**, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ... for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900. **Rwys 25, 30**, CAT A, B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C, D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-200 7400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEEZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JEEZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL. **Rwy 26**, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25:** Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25:** Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL**

RWYS: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7:** Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28,** NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

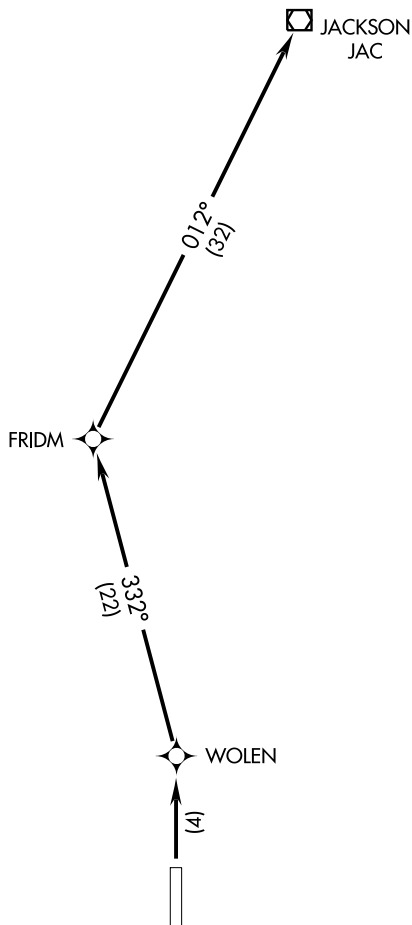
YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4,** NA. **Rwy 9,** 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27,** 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4,** NA. **Rwys 9, 22, 27,** Use ZILLA DEPARTURE PROCEDURE.

AFTON TWO DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
128.35 381.6
CASPER RADIO
122.3
CTAF 122.8



NOTE: Chart not to scale.

NOTE: 1. GPS Required.
2. RNAV 1

TAKE-OFF MINIMUMS

Rwy 34: Standard with minimum climb of 330 feet per NM to 10700.

Rwy 16: NA- Obstacles.

TAKE-OFF OBSTACLE NOTES

Rwy 34: Tree 1054 feet from DER, 605 feet right of centerline, 40' AGL/6241' MSL.

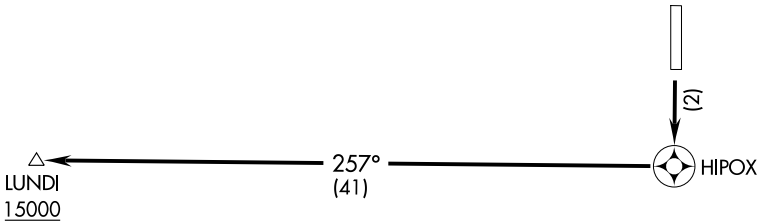
Tree 1703 feet from DER, 235 feet right of centerline, 40' AGL/6259' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb to 13000 direct WOLEN, and via 332° track to FRIDM, then via 012° track to JAC VOR/DME.

SALT LAKE CENTER
128.35 381.6
CASPER RADIO
122.3
CTAF 122.8



TAKE-OFF MINIMUMS

Rwy 16: Standard with minimum climb of 515 feet per NM to 10400.
Rwy 34: NA- obstacles.

TAKE-OFF OBSTACLE NOTES

Rwy 16: Tree 1807 feet from DER, 298 feet right of centerline, 40' AGL/6277' MSL.

- NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 15000 direct HIPOX and right turn via 257° track to LUNDI.

▼

NA

DME/DME RNP-0.3 NA.
Circling NA east of Rwy 16-34
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing left turn to 11500 direct IVAYU and hold.

AWOS-3 119.025	SALT LAKE CENTER 128.35 381.6	CASPER RADIO 122.3	UNICOM 122.8 (CTAF) ①
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Procedure NA for arrivals at MLD VOR/DME via V465 southwest bound and via V142 west bound.

ELEV 6221

91
↑ 0.5% UP

7025 X 75

TDZE 6221

346° to RWY 34

34

MIRL Rwy 16-34 ①

REIL Rwy 16 and 34 ①

7 NM Holding Pattern

CAALL

ALLRD

POKEE 8 NM to RWY 34

PITSZ 6 NM to RWY 34

4.3 NM to RWY 34

3.76° TCH 45

11500

166°

346°

10100

9300

8660

9.6 NM

2 NM

2 NM

1.7 NM

4.3 NM

11500 IVAYU

VGSI and descent angles not coincident

CATEGORY	A	B	C	D
RNAV MDA	7620-1¼ 1399 (1400-1¼)	7620-1½ 1399 (1400-1½)	7620-3 1399 (1400-3)	NA
CIRCLING	7620-1¼ 1399 (1400-1¼)	7620-1½ 1399 (1400-1½)	7620-3 1399 (1400-3)	NA

NW-1, 14 JAN 2010 to 11 FEB 2010

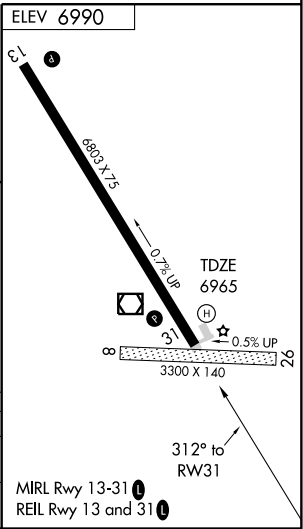
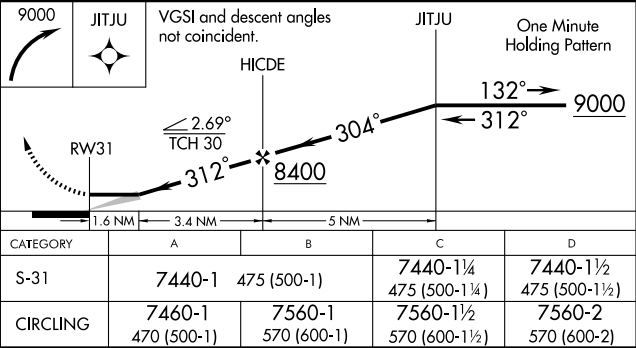
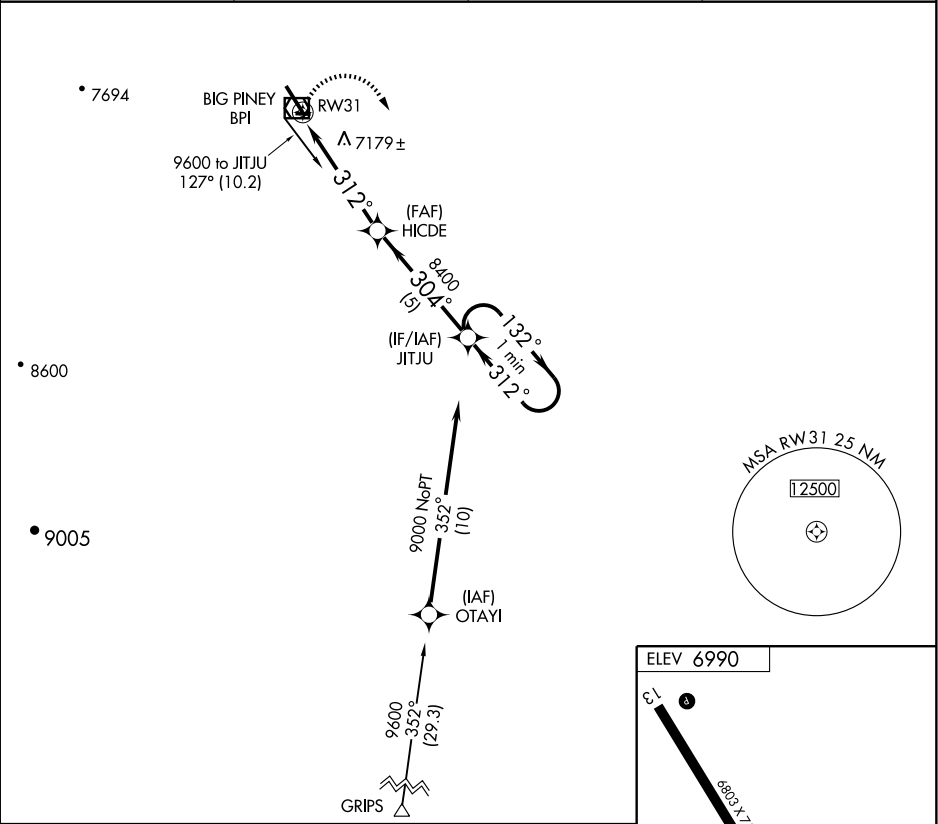
GPS RWY 31

BIG PINEY/ MILEY MEMORIAL FIELD (BPI)

APP CRS	Rwy Idg	6803
312°	TDZE	6965
	Apt Elev	6990

▽ △NA	MISSED APPROACH: Climbing right turn to 9000 direct JITJU and hold.
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ASOS 135.225	CASPER RADIO 122.3	UNICOM 122.8 (CTAF)	122.7 0
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VOR/DME BPI <u>116.5</u> Chan 112	APP CRS 298°	Rwy Idg 6803 TDZE 6965 Apt Elev 6990
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VOR RWY 31

BIG PINEY/ MILEY MEMORIAL FIELD (BPI)



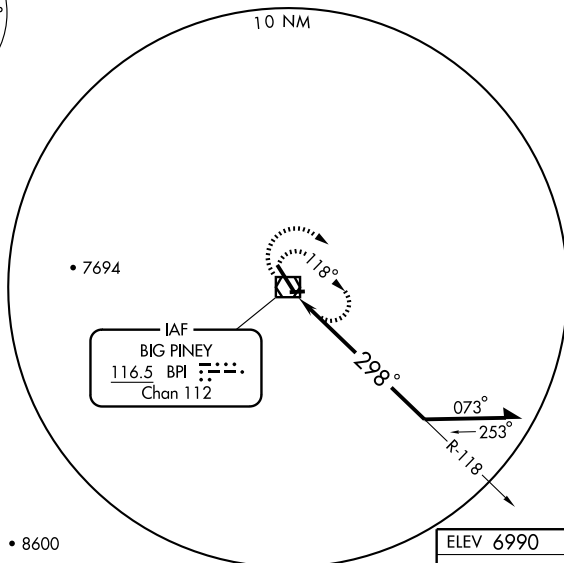
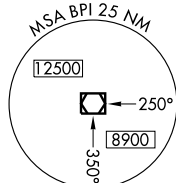
MISSED APPROACH: Climbing right turn to 10000 on BPI R-118, then return to BPI VOR/DME and hold.

ASOS
135,225

CASPER RADIO
122.3

UNICOM
122.8 (CTAF)

122.7 L



10000 BPI R-118	BPI  116.5
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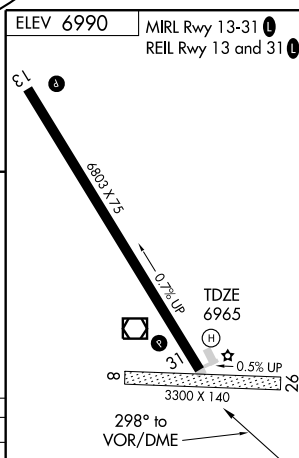
VOR/DME

Remain within 10 NM

118°

298°

8500



CATEGORY	A	B	C	D
S-31	7680-1	715 (700-1)	7680-2 715 (700-2)	7680-2¼ 715 (700-2¼)
CIRCLING	7680-1	690 (700-1)	7680-2 690 (700-2)	7680-2¼ 690 (700-2¼)

Knots	60	90	120	150	180
Min:Sec					

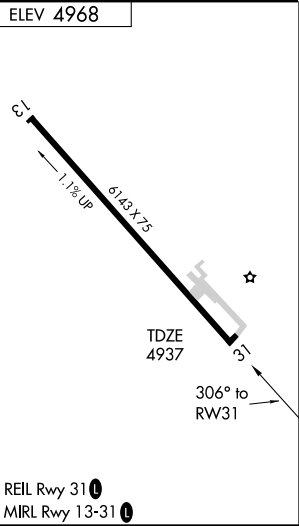
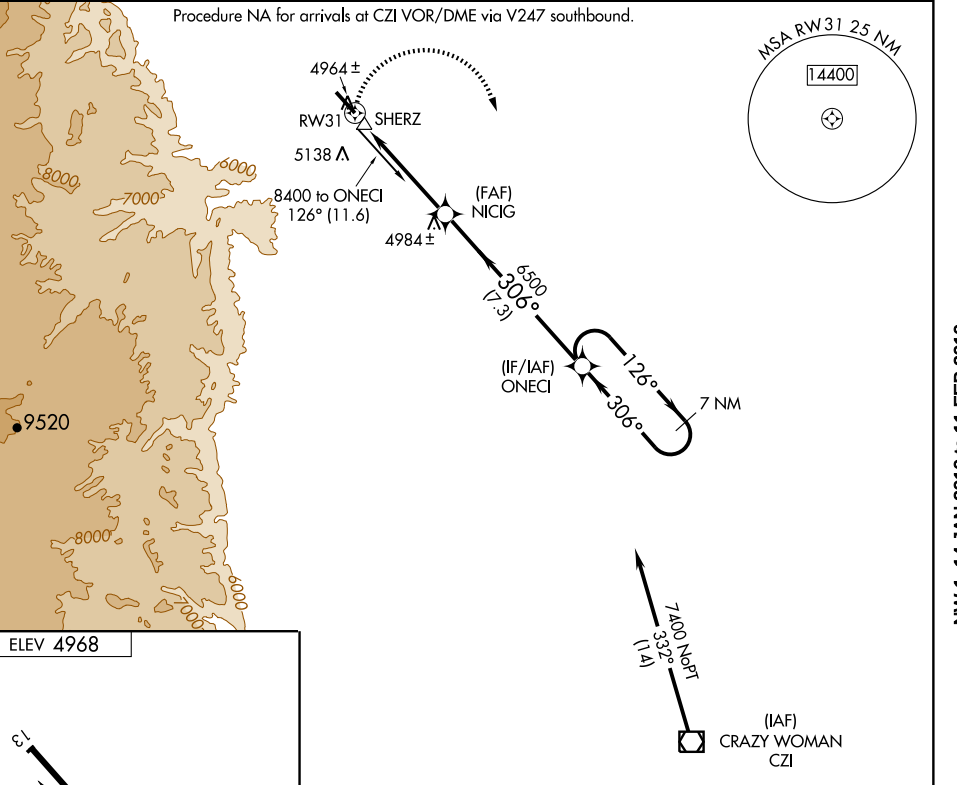
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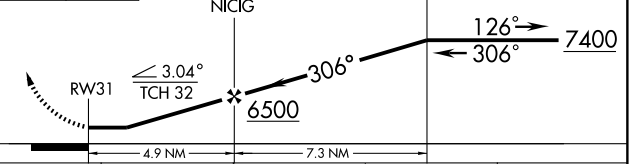
▲

Visibility reduction by helicopters NA.
If local altimeter setting not received, use Sheridan altimeter setting and increase all MDAs 600 feet.
DME/DME RNP- 0.3 NA. Procedure NA at night.

MISSED APPROACH: Climbing right turn to 7400 direct ONECI and hold.

ASOS 135.425	CASPER RADIO 122.025	UNICOM 122.8 (CTAF) 
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7400 	ONECI 	7 NM Holding Pattern			
					
CATEGORY	A	B	C	D	
LNAV MDA	5340-1	403 (400-1)	5340-1¼	403 (400-1¼)	
CIRCLING	5440-1 472 (500-1)	5520-1 552 (600-1)	5540-1½ 572 (600-1½)	5660-2¼ 692 (700-2¼)	

VOR/DME CZI	APP CRS	Rwy Idg	6143
<u>117.3</u>	319°	TDZE	4937
Chan 120		Apt Elev	4968

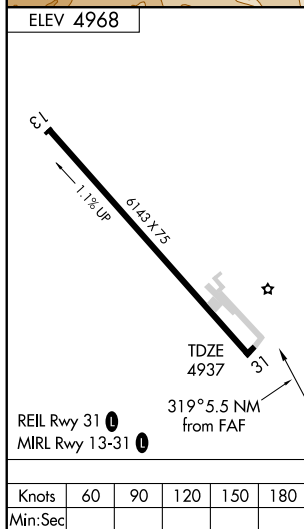
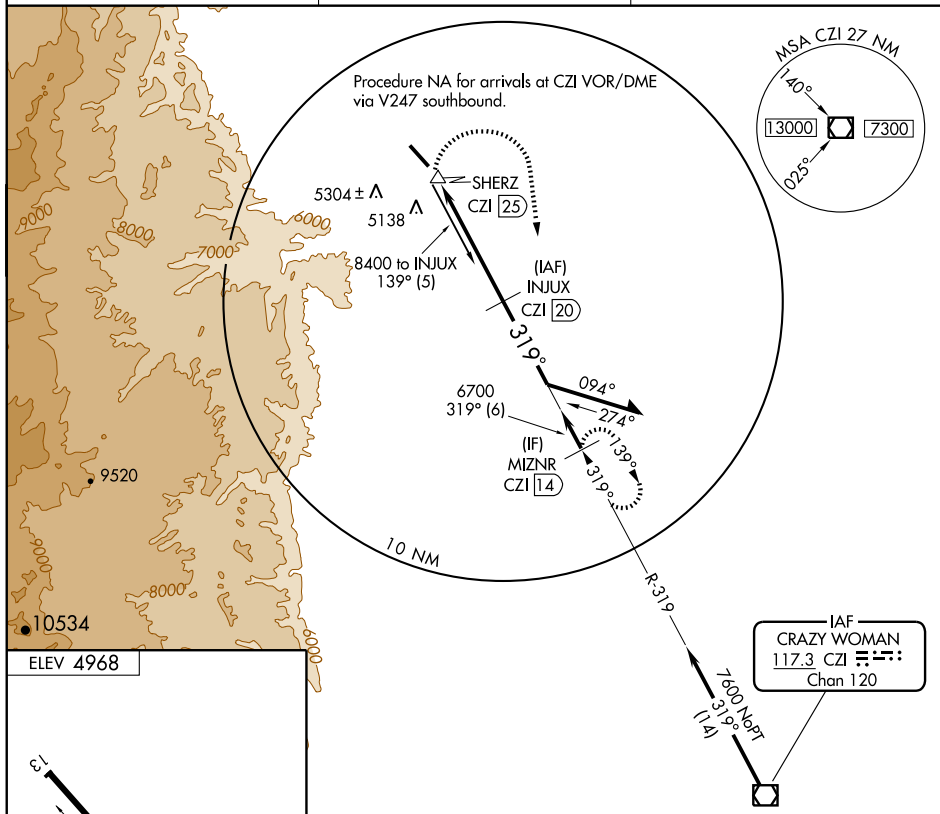
VOR/DME RWY 31
BUFFALO/JOHNSON COUNTY (BYG)

T Visibility reduction by helicopters NA.
A If local altimeter setting not received, use Sheridan altimeter setting and increase all MDAs 600 feet.
 When VGSI inoperative, procedure NA at night.

MISSED APPROACH: Climbing right turn to 7600 via heading 160° and CZI VOR/DME R-319 to MIZNR/14 DME and hold.

ASOS
135,425

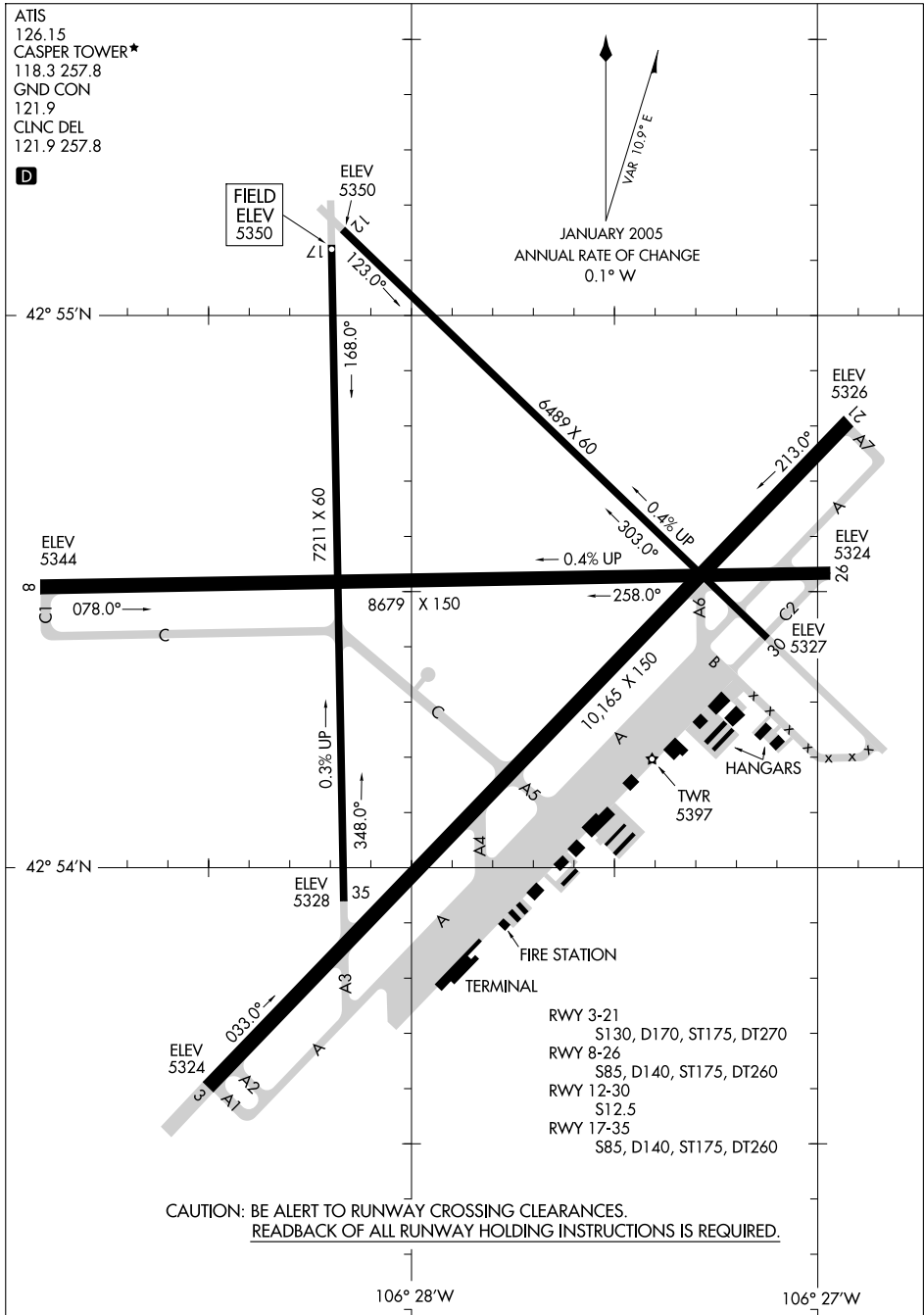
CASPER RADIO
122.025

UNICOM
122.8 (CTAF) **L**

CATEGORY	A	B	C	D
S-31	5680-1 743 (800-1)	5680-1¼ 743 (800-1¼)	5680-2¼ 743 (800-2¼)	5680-2½ 743 (800-2½)
CIRCLING	5680-1 712 (800-1)	5680-1¼ 712 (800-1¼)	5680-2¼ 712 (800-2¼)	5680-2½ 712 (800-2½)

AIRPORT DIAGRAM

AL-72 (FAA)

CASPER/NATRONA COUNTY (CPR)
CASPER, WYOMING

ALCOS THREE DEPARTURE

SL-72 (FAA)

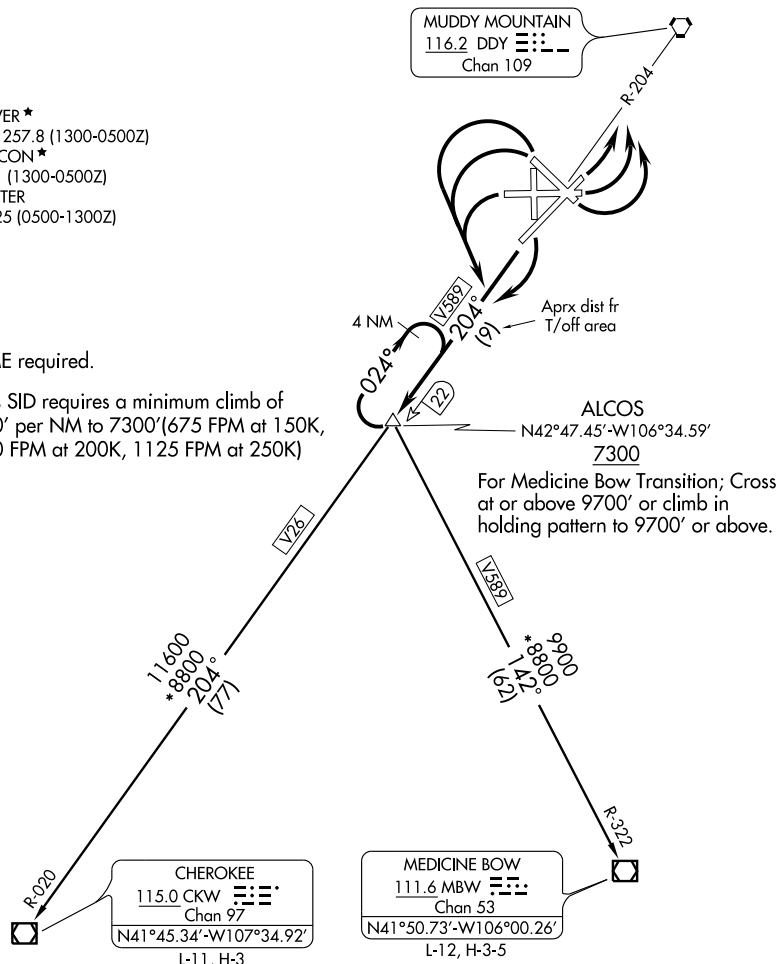
CASPER/NATRONA COUNTY INTL (CPR)

CASPER, WYOMING

ATIS 126.15
 CLNC DEL
 121.9 257.8
 GND CON
 121.9 257.8
 CASPER TOWER ★
 118.3 (CTAF) 257.8 (1300-0500Z)
 CASPER DEP CON ★
 120.65 354.1 (1300-0500Z)
 DENVER CENTER
 135.6 363.025 (0500-1300Z)

NOTE: DME required.

NOTE: This SID requires a minimum climb of
 270' per NM to 7300' (675 FPM at 150K,
 900 FPM at 200K, 1125 FPM at 250K)



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Turn right, thence. . .

ALL OTHER RUNWAYS: Turn left, thence. . .

. . . climb via DDD R-204 to cross ALCOS INT at or above 7300', then via (transition) or (assigned route).

CHEROKEE TRANSITION (ALCOS3.CKW): Via DDD R-204 and V26 to CKW VOR/DME.

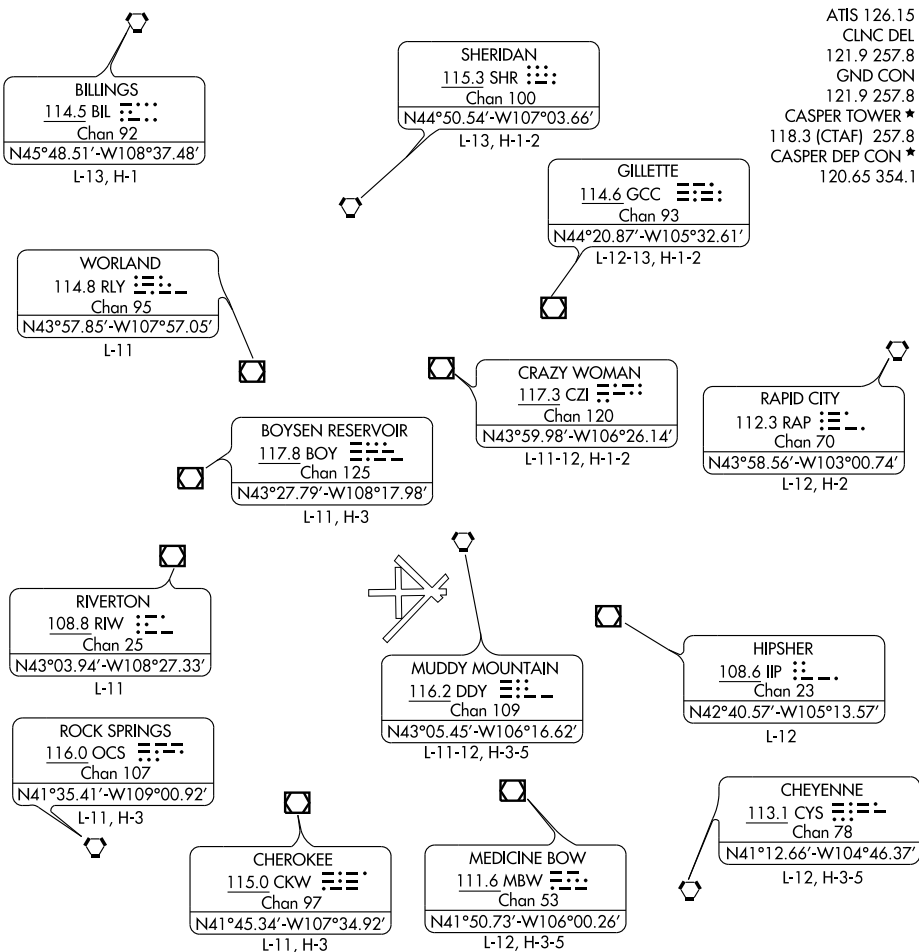
MEDICINE BOW TRANSITION (ALCOS3.MBW): Via MBW R-322 to MBW VOR/DME.
 Cross ALCOS INT at or above 9700' or climb in holding pattern to 9700' or above.

CASPER ONE DEPARTURE

SL-72 (FAA)

CASPER/NATRONA COUNTY INTL (CPR)

CASPER, WYOMING



ATIS 126.15
CLNC DEL
121.9 257.8
GND CON
121.9 257.8
CASPER TOWER ★
118.3 (CTAF) 257.8
CASPER DEP CON ★
120.65 354.1

NOTE: Aircraft departing Runways 12 and 17 will be issued departure instructions by clearance delivery/ground control.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

All aircraft fly runway heading for radar vectors to filed/assigned fix/route. Maintain 14,000 feet or assigned lower altitude. Expect further clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received for one minute after departure, maintain runway heading until 7,000 feet, then climb to filed altitude via direct DDY VORTAC, then via assigned fix/route. Runways 3 and 8 turn left to DDY VORTAC, all others turn right to DDY VORTAC.

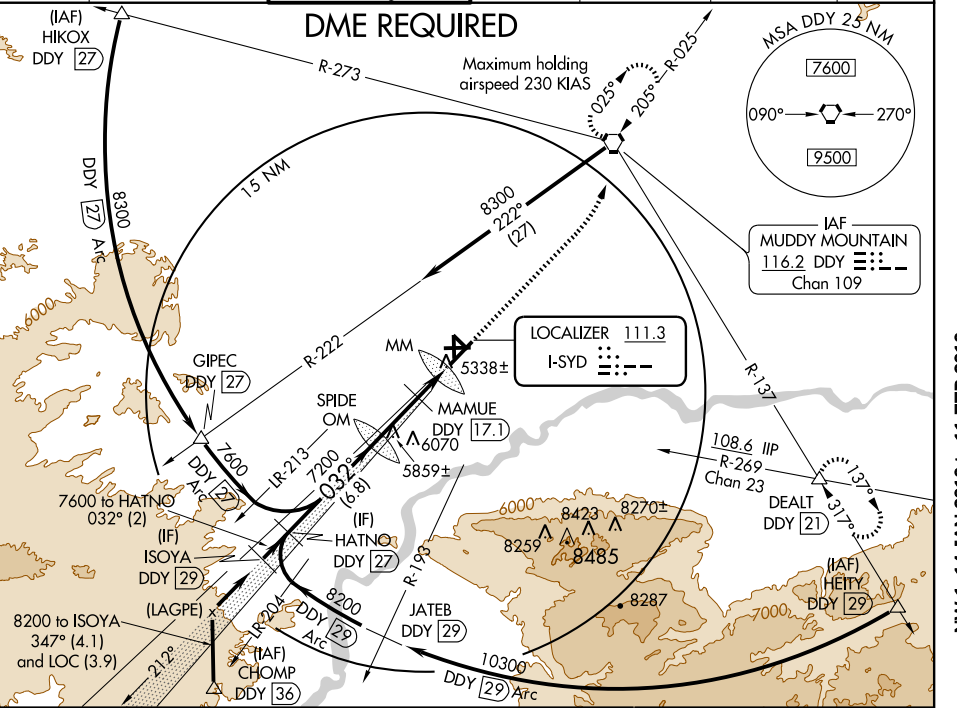
LOC I-SYD	APP CRS	Rwy Idg	10165
111.3	032°	TDZE	5328
		Apt Elev	5350

For inoperative MALS, increase S-ILS-3 Cat E visibility to RVR 4000, S-LOC-3 Cat E visibility to 3. MAMUE FIX MINIMUMS: For inoperative MALS, increase S-LOC-3 Cats D and E visibility to 1. DME from DDY VORTAC, simultaneous reception of I-SYD and DDY DME required. # RVR 1800 authorized with the use of FD or AP or HUD to DA.

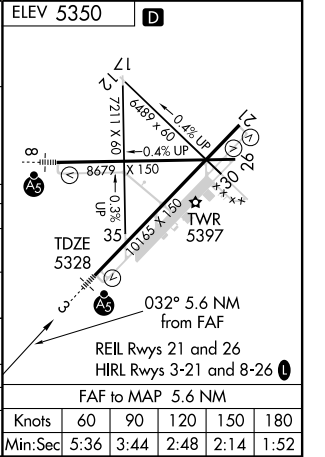
MALS

MISSED APPROACH: Climb to 7500 then left turn direct DDY VORTAC and hold. (TACAN aircraft continue climb to 12000 via DDY VORTAC R-137 to DEALT/DDY 21 DME and hold SE, right turn, 317° inbound).

ATIS	CASPER APP CON	CASPER TOWER	GND CON	CLNC DEL	CASPER RADIO	UNICOM
126.15	120.65 354.1	118.3 (CTAF) 257.8	121.9	121.9 257.8	122.4	122.95



Procedure	ISOYA	HATNO	SPIDE OM	MAMUE	DDY
Turn	DDY 29	DDY 27		DDY 17.1	DDY 116.2
NA					
	8200	7600	7200	7188	7500
		032°			
					*LOC only
GS 3.00°					
TCH 53					
	2 NM	6.8 NM	3.2 NM	1.9 NM	0.5
CATEGORY	A	B	C	D	E
S-ILS 3	# 5528/24 200 (200-½)				5528/24 200 (200-½)
S-LOC 3	6140/24 812 (800-½)	6140/40 812 (800-¾)	6140-2 812 (800-2)	6140-2 ½ 812 (800-2 ¼)	6140-2 ½ 812 (800-2 ½)
CIRCLING	6140-1 790 (800-1)	6140-1 ¼ 790 (800-1 ¼)	6140-2 ½ 790 (800-2 ½)	6140-2 ¾ 790 (800-2 ¾)	6220-3 870 (900-3)
MAMUE FIX MINIMUMS					
S-LOC 3	5600/24 272 (300-½)		5600/40 272 (300-¾)		
CIRCLING	5780-1 430 (500-1)	5800-1 450 (500-1)	5800-1 ½ 450 (500-1 ½)	5900-2 550 (600-2)	6220-3 870 (900-3)



NW-1. 14 JAN 2010 to 11 FEB 2010

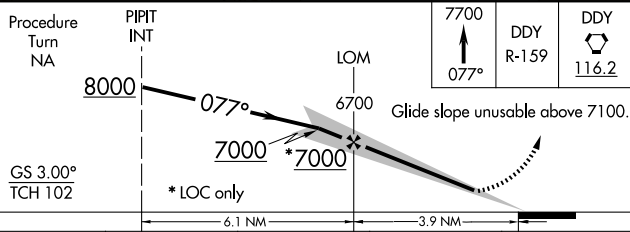
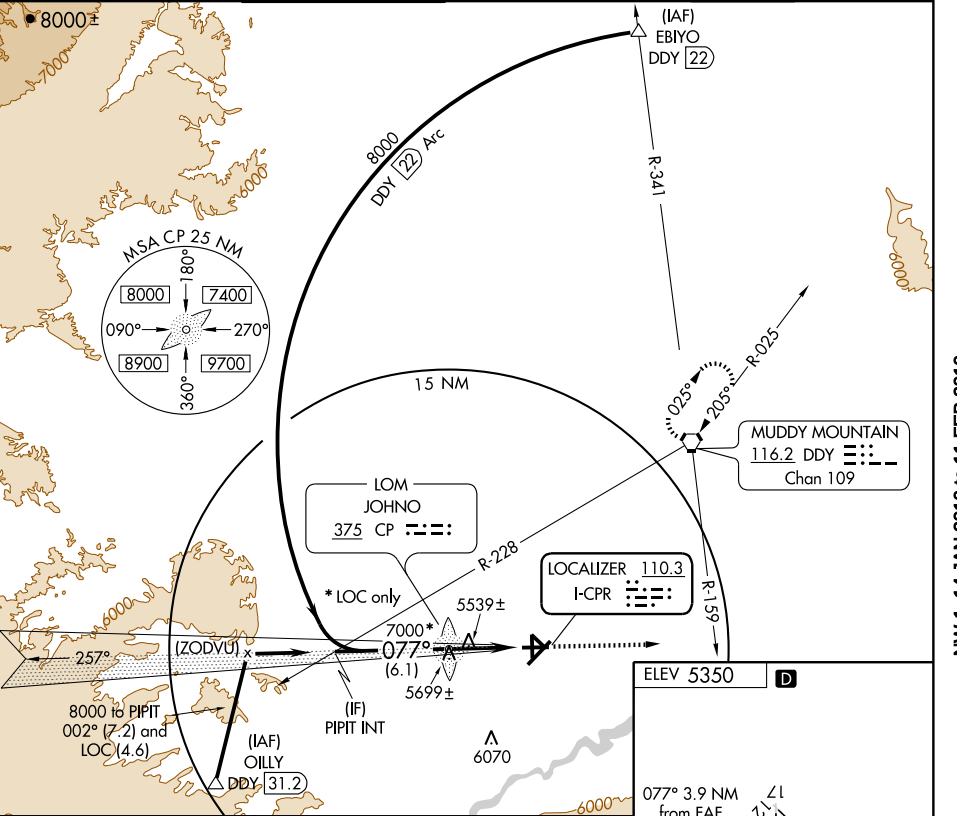
LOC I-CPR	APP CRS	Rwy Idg TDZE	8679 5344
110.3	077°	Apt Elev	5350

Inoperative table does not apply to S-ILS 8.

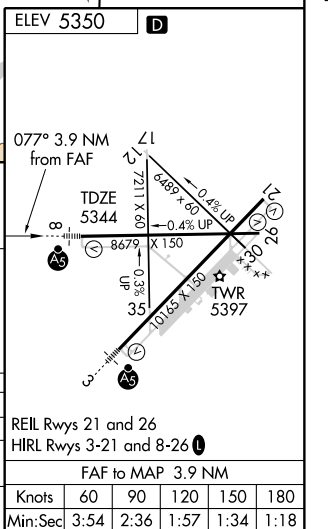
MALSR

MISSED APPROACH: Climb to 7700 via heading 077° and DDY VORTAC R-159 to DDY VORTAC and hold.

ATIS	CASPER APP CON	CASPER TOWER	GND CON	CLNC DEL	CASPER RADIO	UNICOM
126.15	120.65 354.1	118.3 (CTAF) 0 257.8	121.9	121.9 257.8	122.4	122.95



CATEGORY	A	B	C	D
S-ILS 8	5644/40	300 (300-3/4)	NA	NA
S-LOC 8	5800/24 456 (500-1/2)	5800/40 456 (500-3/4)	NA	NA
CIRCLING	5800-1 450 (500-1)	5800-1 1/2 450 (500-1 1/2)	NA	NA



WAAS CH 73006 W03A	APP CRS 032°	Rwy Idg TDZE Apt Elev	10165 5328 5350
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RNAV (GPS) RWY 3

CASPER/NATRONA COUNTY INTL (CPR)

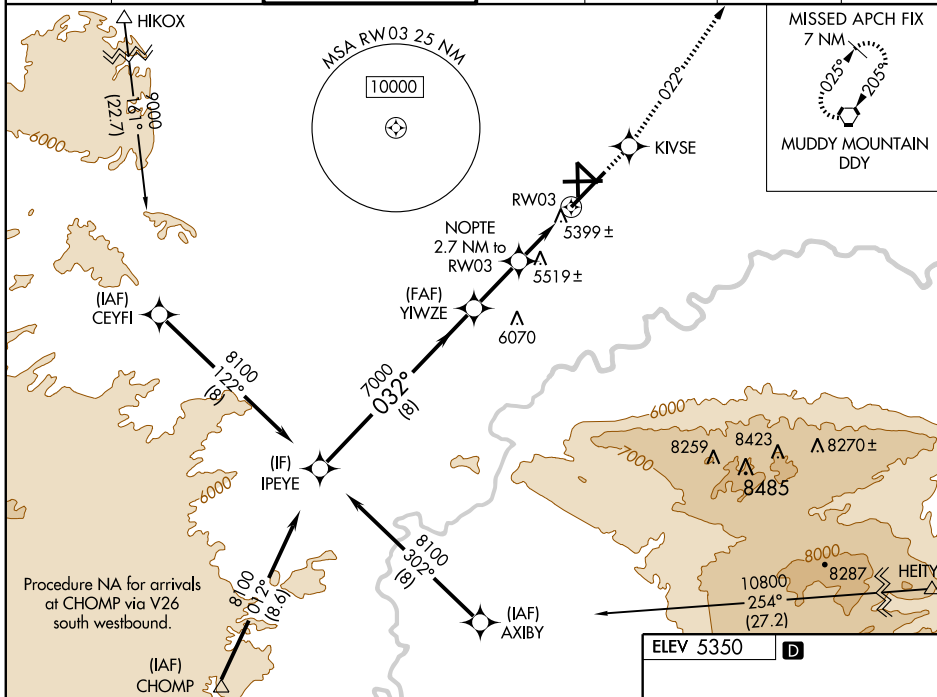
▼ For inoperative MALS/R, increase LPV all Cats visibility to 1 mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

MALS/R

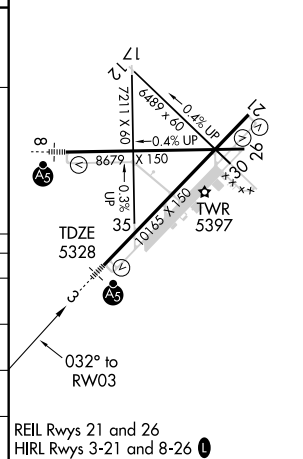


MISSED APPROACH: Climb to 7500
direct KIVSE and via track 022° to
DDY VORTAC and hold.

ATIS 126.15	CASPER APP CON* 120.65 354.1	CASPER TOWER* 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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IPEYE		YIWZE		NOPT		RWY 03		RWY 03	
8100		7000		6240		5328		5350	
GS 3.00°		TCH 52		8 NM		2.3 NM		1.4 NM	
CATEGORY		A		B		C		D	
LPV DA		5643/24		315 (300-½)					
LNAV/VNAV DA		5691/40		363 (400-¾)					
LNAV MDA		5780/24		452 (500-½)		5780/40		5780/50	
								452 (500-1)	
CIRCLING		5780-1		5800-1		5800-1½		5900-2	
		430 (500-1)		450 (500-1)		450 (500-1½)		550 (600-2)	



WAAS CH 86306 W08A	APP CRS 077°	Rwy Idg 8679 TDZE 5344 Apt Elev 5350
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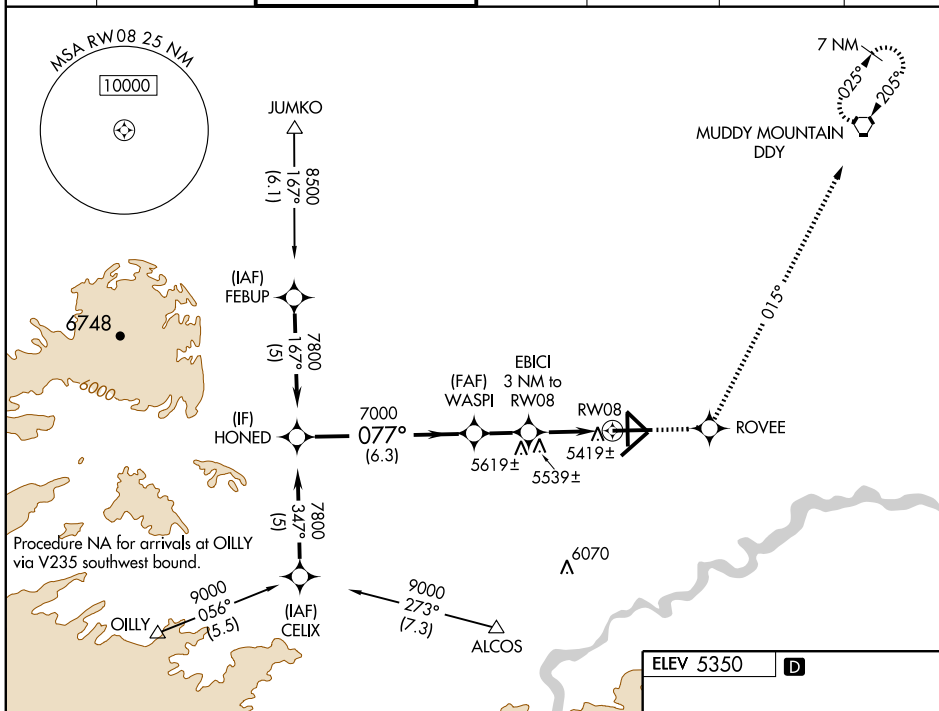
RNAV (GPS) RWY 8
CASPER/NATRONA COUNTY INTL (CPR)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

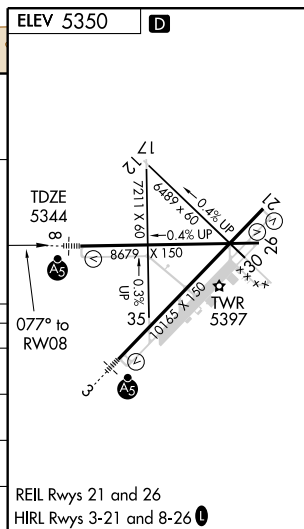
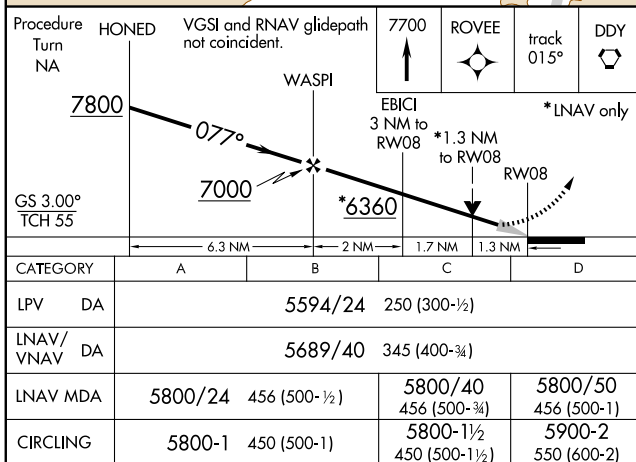
MALSR

MISSED APPROACH: Climb to 7700 direct ROVEE and via track 015° to DDY VORTAC and hold.

ATIS	CASPER APP CON★	CASPER TOWER★	GND CON	CLNC DEL	CASPER RADIO	UNICOM
126.15	120.65 354.1	118.3 (CTAF) 0 257.8	121.9	121.9 257.8	122.4	122.95



NW-1. 14 JAN 2010 to 11 FEB 2010



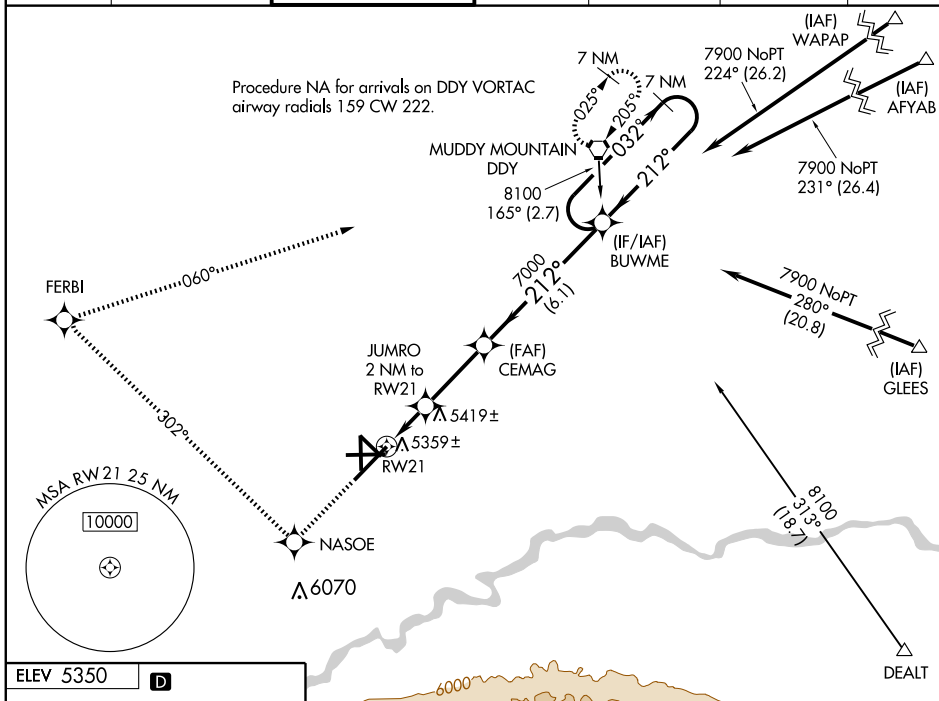
WAAS CH 63012 W21A	APP CRS 212°	Rwy Idg 10165 TDZE 5330 Apt Elev 5350
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RNAV (GPS) RWY 21
CASPER/NATRONA COUNTY INTL (CPR)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 8100 direct NASOE and right turn via track 302° to FERBI and via track 060° to DDY VORTAC and hold.

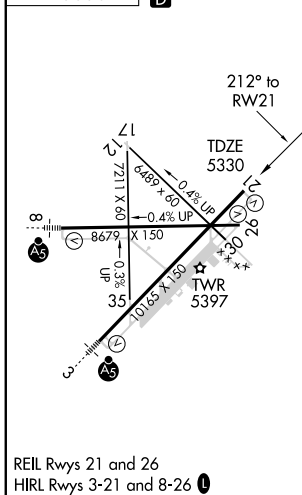
ATIS 126.15	CASPER APP CON ★ 120.65 354.1	CASPER TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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NW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 5350

P

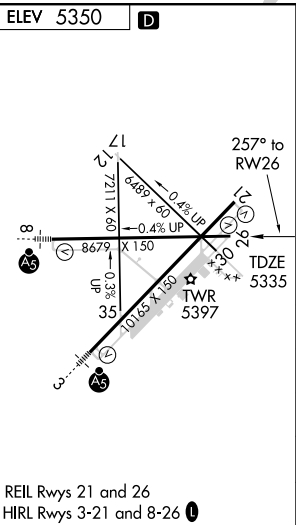
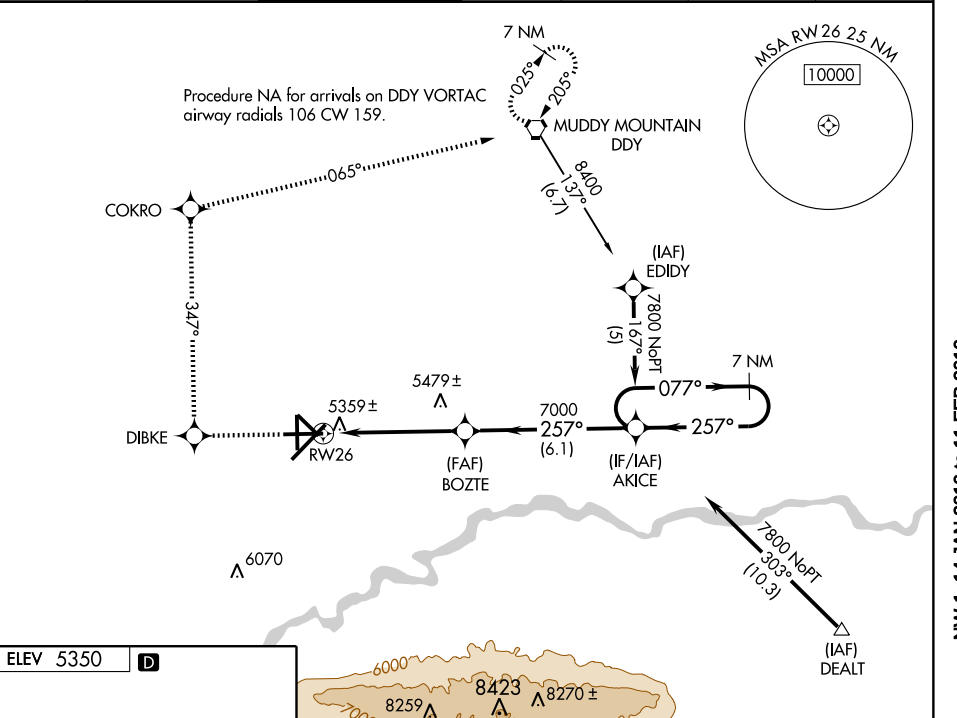


8100 ↑	NASOE ✦	track 302° ↗	FERBI ✦	track 060° →	DDY ⬡	BUWME 	7 NM Holding Pattern
*LNAV only		JUMRO 2 NM to RW21	CEMAG				
0.9 NM to RW21		6020		212°	032° →	7900	GS 3.00° TCH 56
RW21		0.9	1.1 NM	3 NM	6.1 NM		
CATEGORY	A	B	C	D			
LPV DA	5580-3/4 250 (300-3/4)						
LNAV/VNAV DA	5629-1 299 (300-1)						
LNAV MDA	5680-1 350 (400-1)					5680-1 1/4 350 (400-1 1/4)	
CIRCLING	5780-1 430 (500-1)	5800-1 450 (500-1)	5800-1 1/2 450 (500-1 1/2)	5900-2 550 (600-2)			

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 8400 direct DIBKE and right turn via track 347° to COKRO and via track 065° to DDY VORTAC and hold.

ATIS 126.15	CASPER APP CON ★ 120.65 354.1	CASPER TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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8400	DIBKE	COKRO	DDY	AKICE	7 NM Holding Pattern
	track 347°	track 065°			
*LNAV only					
	BOZTE				
	1.2 NM to RWY 26				
	1.2 NM	3.9 NM	6.1 NM		
					GS 3.00° TCH 40
CATEGORY	A	B	C	D	
LPV DA	5585-1 250 (300-1)				
LNAV/VNAV DA	5629-1 294 (300-1)				
LNAV MDA	5740-1 405 (400-1)		5740-1¼ 405 (400-1¼)		
CIRCLING	5780-1 430 (500-1)	5800-1 450 (500-1)	5800-1½ 450 (500-1½)	5900-2 550 (600-2)	

NW-1. 14 JAN 2010 to 11 FEB 2010

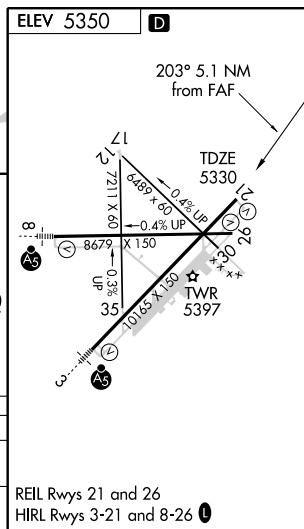
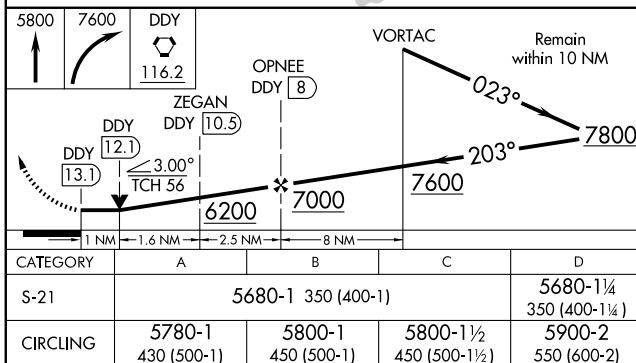
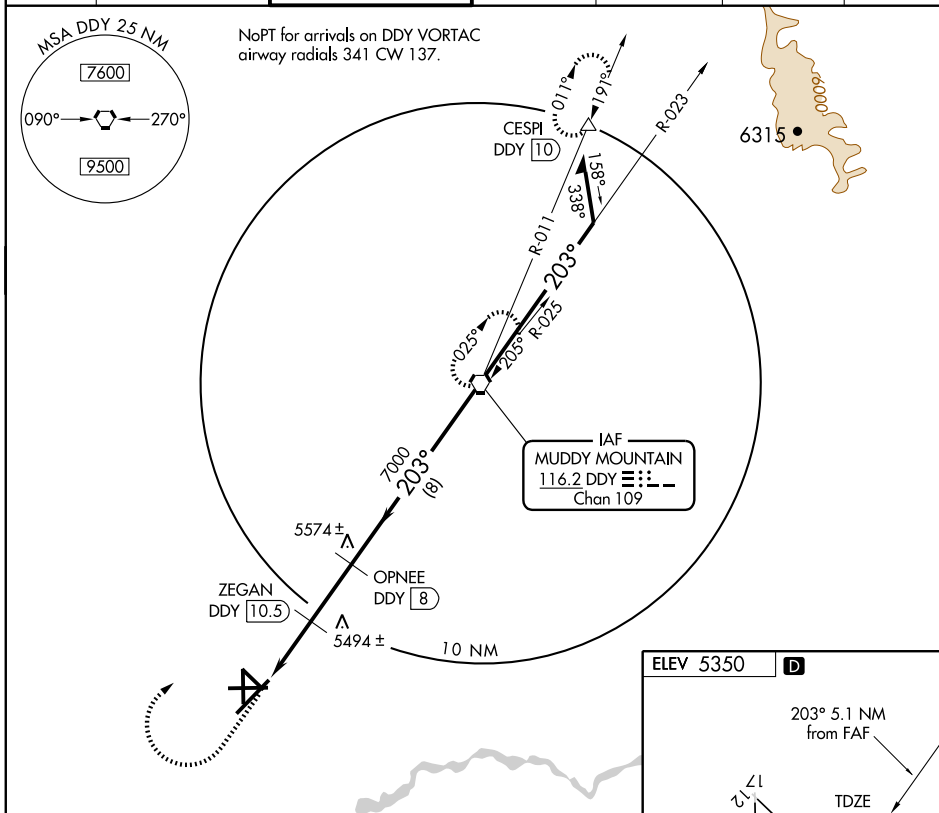
VORTAC DDY <u>116.2</u> Chan 109	APP CRS 203°	Rwy Idg 10165 TDZE 5330 Apt Elev 5350
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VOR/DME or TACAN RWY 21

CASPER/NATRONA COUNTY INTL (CPR)

MISSED APPROACH: Climb to 5800, then climbing right turn to 7600 direct DDY VORTAC and hold (TACAN aircraft continue climb to 8000 via DDY VORTAC R-011 to CESPI/10 DME and Hold N, RT, 191° inbound).

ATIS	CASPER APP CON ★	CASPER TOWER ★	GND CON	CLNC DEL	CASPER RADIO	UNICOM
126.15	120.65 354.1	118.3 (CTAF) 0 257.8	121.9	121.9 257.8	122.4	122.95



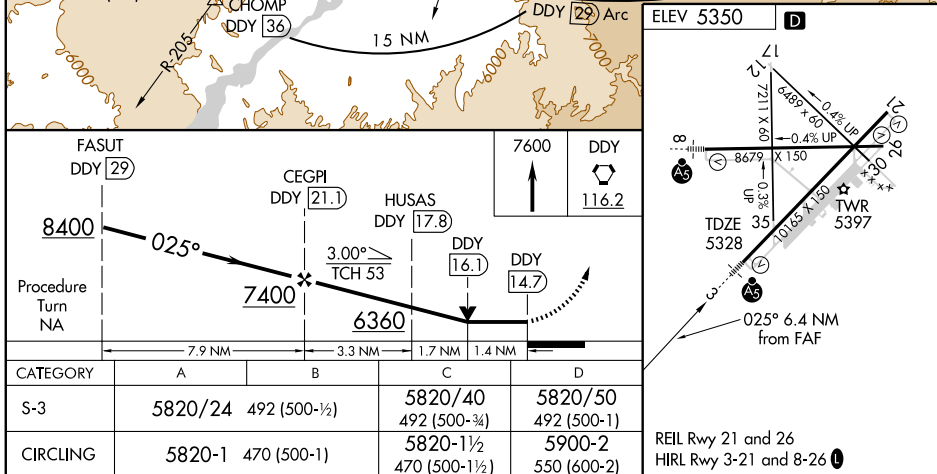
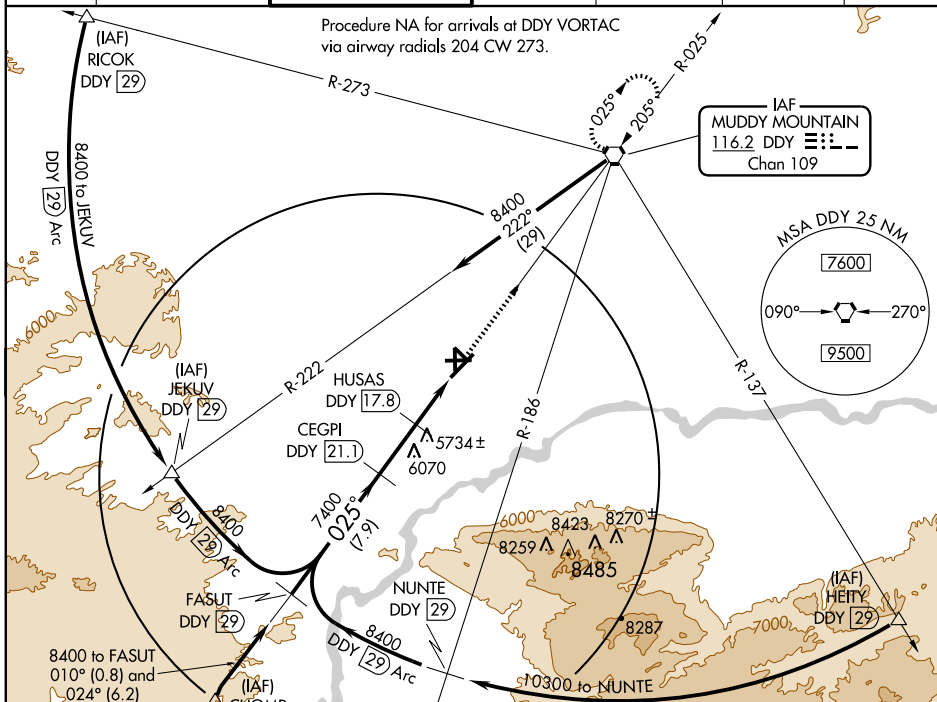
VORTAC DDD 116.2 Chan 109	APP CRS 025°	Rwy Idg TDZE Apt Elev 10165 5328 5350
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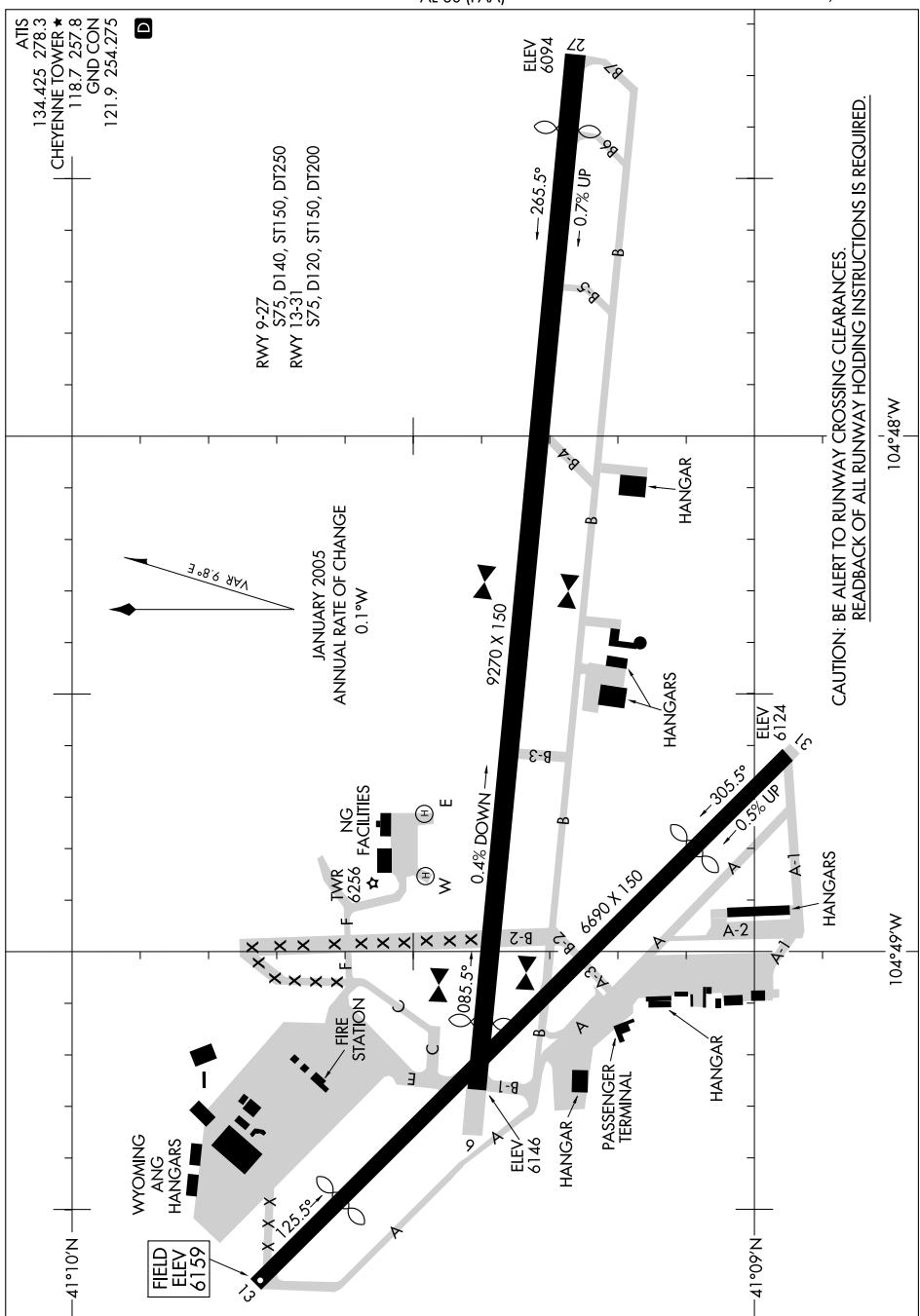
VOR/DME RWY 3

CASPER/NATRONA COUNTY INTL (CPR)

		MALS R 	MISSED APPROACH: Climb to 7600 direct DDD VORTAC and hold.
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ATIS 126.15	CASPER APP CON ★ 120.65 354.1	CASPER TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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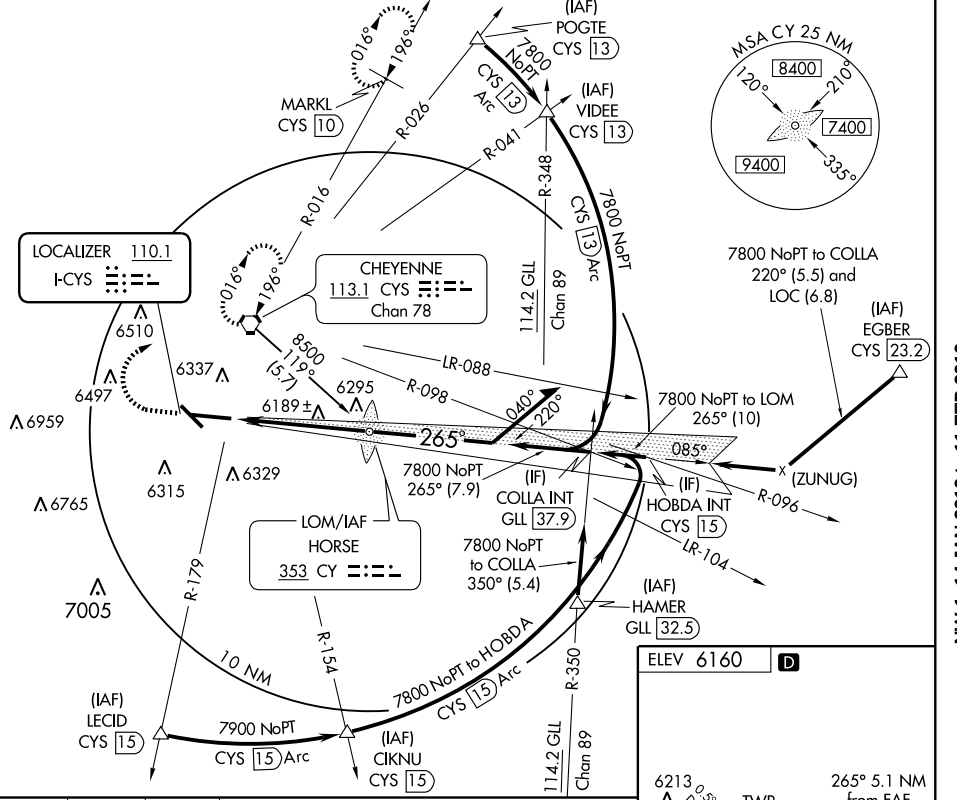
ASR/PAR

For inoperative MALSR, increase S-LOC 27 Cat D visibility to RVR 5000.
* RVR 1800 authorized with the use of FD or AP or HDE to DA.

MALSR

MISSED APPROACH: Climb to 6700, then climbing right turn to 8000 direct CYS VORTAC and hold. (TACAN aircraft continue via CYS R-016 to MARKL/10 DME and hold N, RT, 196° inbound.)

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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6700

8000

CYS

113.1

LOM

7791

085°

265°

7800

7800

GS 3.00°

TCH 55

5.1 NM

CATEGORY	A	B	C	D
S-ILS 27	* 6321/24 200 (200-1/2)			
S-LOC 27	6440/24 319 (300-1/2)		6440/40 319 (300-3/4)	
CIRCLING	6660-1 500 (500-1)		6660-1 1/2 500 (500-1 1/2) 6720-2 560 (600-2)	

REIL Rwy 9, 13 and 31

HIRL Rwy 9-27

MIRL Rwy 13-31

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

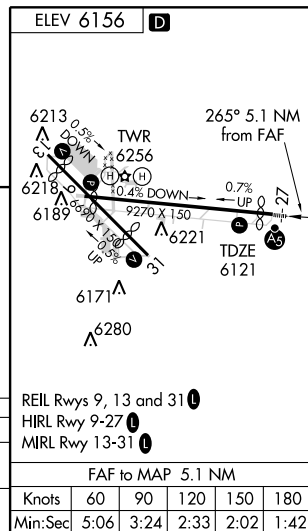
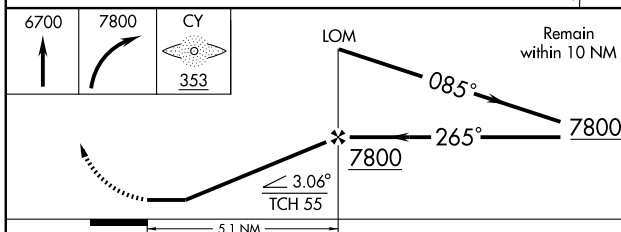
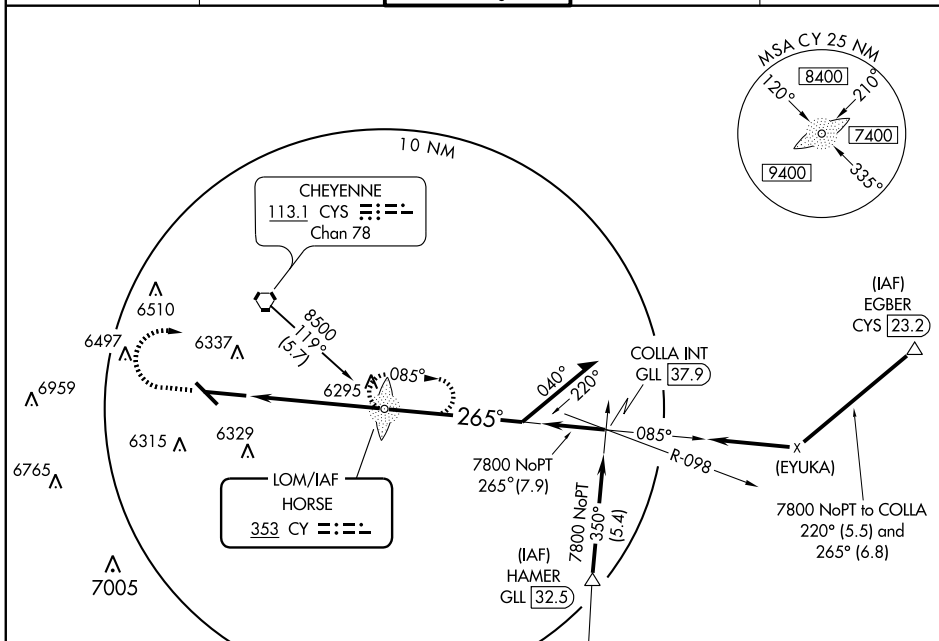
NW-1, 14 JAN 2010 to 11 FEB 2010

LOM CY <u>353</u>	APP CRS 265°	Rwy Idg TDZE Apt Elev	7985 6121 6156
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NDB RWY 27
CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

  ASR/PAR	MALSR 	MISSED APPROACH: Climb to 6700, then climbing right turn to 7800 direct HORSE LOM and hold.
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ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263,075	CHEYENNE TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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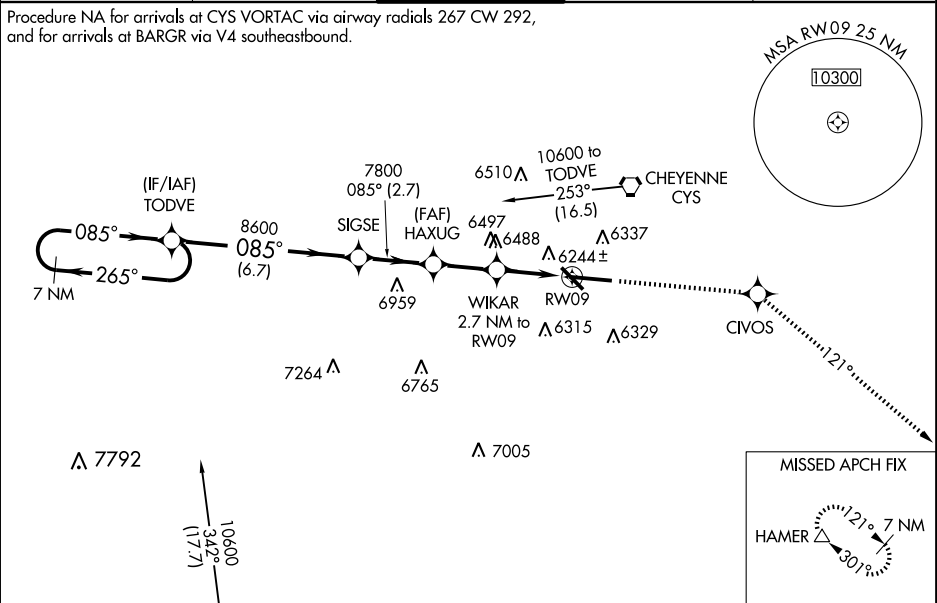
WAAS CH 73009 W09A	APP CRS 085°	Rwy Idg TDZE Apt Elev	7985 6143 6159
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RNAV (GPS) RWY 9
CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 36°C (96°F).
ASR/PAR DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Laramie altimeter setting and increase all DA 251 feet, all MDA 260 feet, and all visibilities ¾ mile.
VDP and Baro-VNAV NA when using Laramie altimeter setting.

MISSED APPROACH: Climb to 8500 direct CIVOS and via 121° track to HAMER and hold.

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER * 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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7 NM Holding Pattern		TODVE		SIGSE		HAXUG		WIKAR 2.7 NM to RW09		*LNAV only	
10600 ← 265°		085° →		8600		7800		*7060		*1.1 NM to RW09	
GS 3.00° TCH 50		6.7 NM		2.7 NM		2.3 NM		1.6		1.1	
CATEGORY	A	B	C	D							
LPV DA	6473-1¼ 330 (400-1¼)										
LNAV/VNAV DA	6542-1½ 399 (400-1½)										
LNAV MDA	6540-1 397 (400-1)								6540-1¼ 397 (400-1¼)		
CIRCLING	6660-1 501 (600-1)				6660-1½ 501 (600-1½)				6720-2 561 (600-2)		

ELEV 6159 **D**

REIL Rwy 9, 13, and 31 **L**
HIRL Rwy 9-27 **L**
MIRL Rwy 13-31 **L**

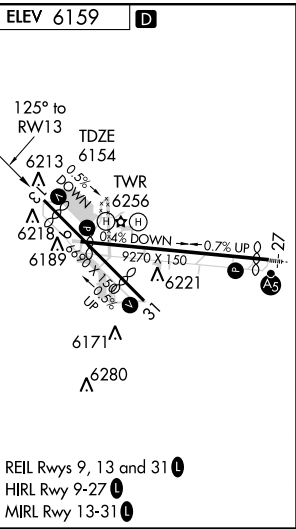
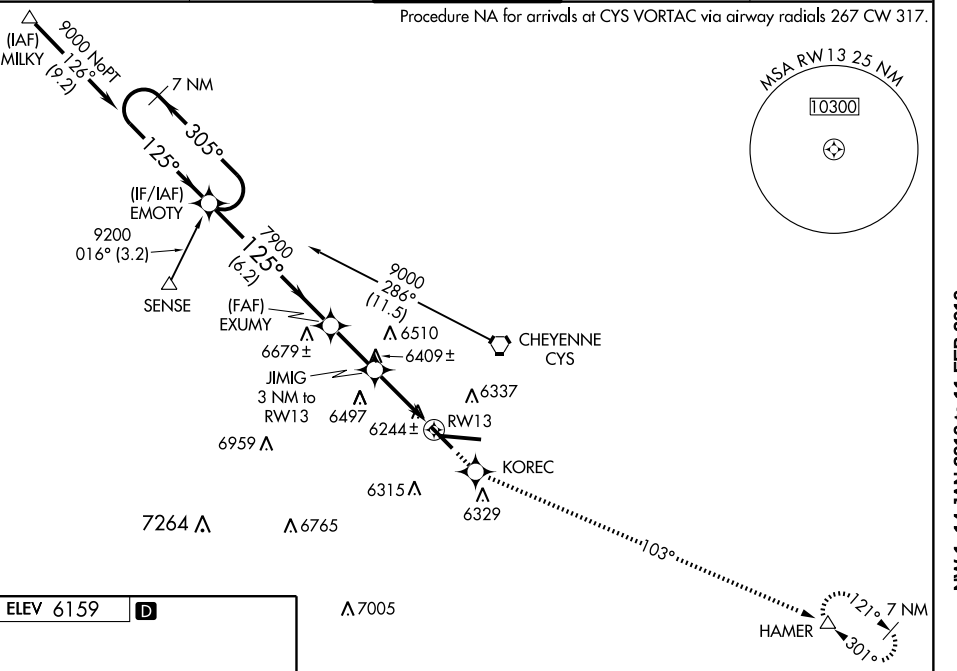
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Baro-VNAV NA when using Laramie altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 36°C (96°F).
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Laramie altimeter setting and increase all DA/MDA 260 feet and all visibilities 1 mile.

MISSED APPROACH: Climb to 8500 direct KOREC and via 103° track to HAMER and hold.

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER ★ 118.7(CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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VGSI and RNAV glidepath not coincident					8500 ↑	KOREC ✦	103° track	HAMER △
7 NM Holding Pattern					EMOTY	EXUMY	JIMIG 3 NM to RW13	RW13
9000 ← 305° 125° →					125°	*7160	*LNAV only	
GS 3.00° TCH 55					7900			
					6.2 NM	2.2 NM	3 NM	
CATEGORY	A	B	C	D				
LPV DA	6481-1 327 (400-1)							
LNAV/ VNAV DA	6539-1¼ 385 (400-1¼)							
LNAV MDA	6660-1 506 (600-1)				6660-1½ 506 (600-1½)			
CIRCLING	6660-1 501 (600-1)				6660-1½ 501 (600-1½)		6720-2 561 (600-2)	

REIL Rwy 9, 13 and 31
HIRL Rwy 9-27
MIRL Rwy 13-31

ASR/PAR

Baro-VNAV NA below -27°C (-16°F).
DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 10300 direct AYIYU and via 291° track to SENSE and hold, continue climb-in-hold to 10300.

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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Procedure NA for arrivals at CYS VORTAC on airway radial 154.

ELEV 6160 **D**

REIL Rwy 9, 13 and 31
HIRL Rwy 9-27
MIRL Rwy 13-31

10300	AYIYU	291° track	SENSE	TORJU	COLLA	6 NM Holding Pattern		
* LNAV only								
* 1.3 NM to RWY27								
7800 265° 7800 085° 265° GS 3.00° TCH 55								
CATEGORY	A	B	C	D				
LPV DA	6380/24 259 (300-½)							
LNAV/VNAV DA	6480/40 359 (400-¾)							
LNAV MDA	6560/24 439 (500-½)	6560/40 439 (500-¾)	6560/50 439 (500-1)					
CIRCLING	6660-1 500 (500-1)	6660-1½ 500 (500-1½)	6720-2 560 (600-2)					

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▲

ASR/PAR

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 36°C (96°F).

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

VDP and Baro-VNAV NA when using Laramie altimeter setting.

When local altimeter setting not received, use Laramie altimeter setting and increase all DA/MDA 260 feet and all visibilities ¾ mile.

MISSED APPROACH: Climb to 10300 direct IVUCI and via 287° track to SENSE and hold, continue climb-in-hold to 10300.

ATIS 134.425 278.3	Cheyenne APP CON 124.55 263.075	Cheyenne Tower ★ 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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Procedure NA for arrivals at CYS VORTAC via airway radials 081 CW 203.

ELEV 6159

10300	IVUCI	287° track	SENSE	VGSI and RNAV glidepath not coincident.								
				LORYI	ZORIS	7 NM Holding Pattern						
*LNAV only				125° → 7800								
*1.4 NM to RW31				← 305°								
RW31				GS 3.00°								
				TCH 55								
CATEGORY	A	B	C	D								
LPV DA	6397-1 250 (300-1)											
LNAV/VNAV DA	6545-1½ 398 (400-1½)											
LNAV MDA	6600-1	453 (500-1)	6600-1¼	6600-1½	453 (500-1½)							
CIRCLING	6660-1	501 (600-1)	6660-1½	6720-2	501 (600-1½)	561 (600-2)						

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VORTAC CYS <u>113.1</u> Chan 78	APP CRS 196°	Rwy Idg TDZE Apt Elev	N/A N/A 6156
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VOR or TACAN-A

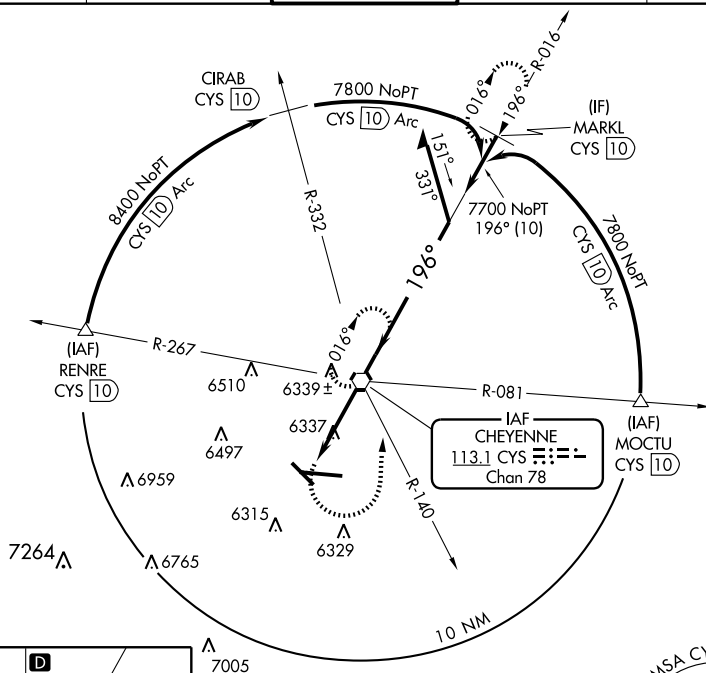
CHEYENNE RGNL/JERRY OLSON FIELD (CYS)



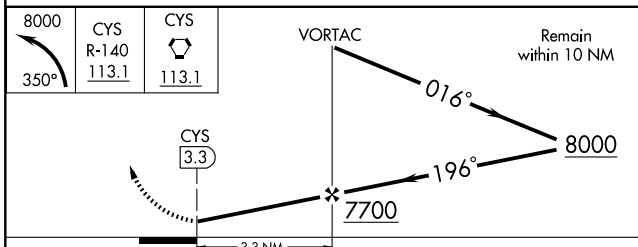
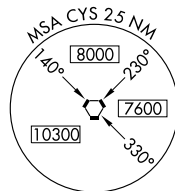
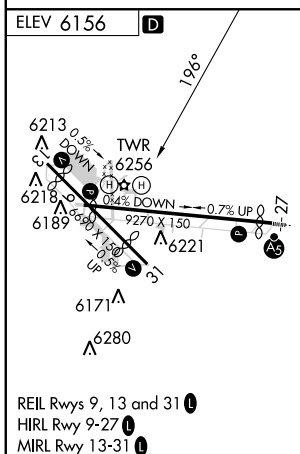
ASR/PAR

MISSED APPROACH: Climbing left turn to 8000 via heading 350° and CYS VORTAC R-140 to CYS VORTAC and hold, continue climb-in-hold to 8000 (TACAN aircraft continue via CYS R-016 to MARKL/10 DME and hold N, RT, 196° inbound.)

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263,075	CHEYENNE TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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NW-1. 14 JAN 2010 to 11 FEB 2010



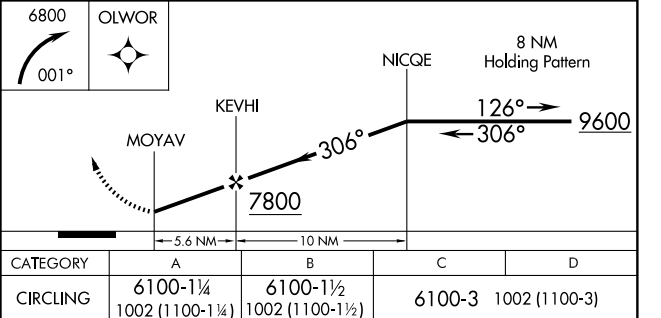
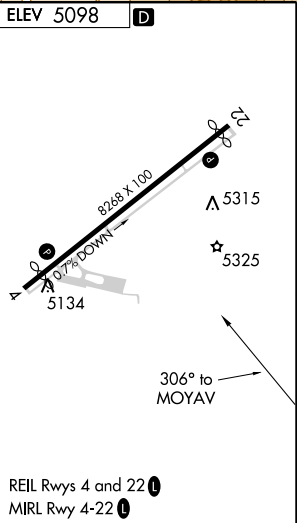
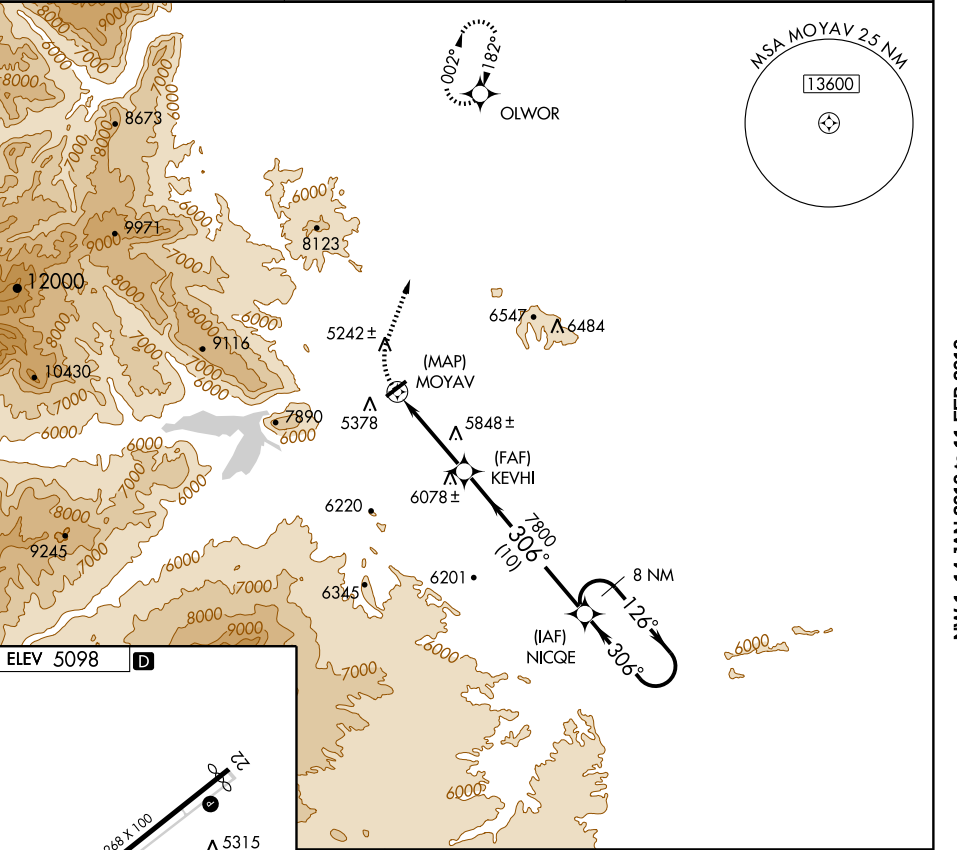
FAF to MAP 3.3 NM							CATEGORY	A		B		C	D
Knots	60	90	120	150	180		CIRCLING	6660-1		504 (600-1)		6660-1½	6720-2
Min:Sec	3:18	2:12	1:39	1:19	1:06							504 (600-1½)	564 (600-2)

▼

▲ NA

MISSED APPROACH: Climbing right turn to 6800 via 001° course to OLOWOR WP and hold.

AWOS-3 135.075	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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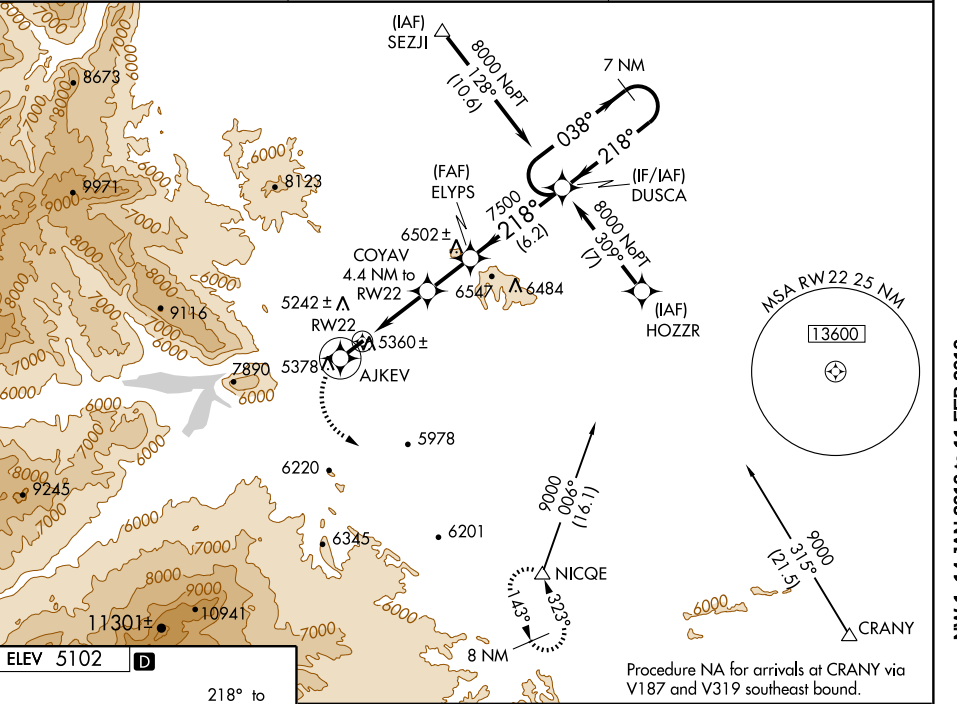
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DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 9600 direct AJKEV and left turn via 123° track to NICQE and hold.

AWOS-3 135.075	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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ELEV 5102

9600	AJKEV	NICQE	7 NM Holding Pattern	
* LNAV only		ELYPS	DUSCA	
COYAV 4.4 NM to RW22		6540	7500	
RW22		6.2 NM	8000	
* 1.6 NM to RW22		218°	038°	
1.6		2.8 NM	2.9 NM	
CATEGORY	A	B	C	D
LPV DA	5457-1¼ 381 (400-1¼)			
LNAV/ VNAV DA	NA			
LNAV MDA	5620-1	544 (600-1)	5620-1½ 544 (600-1½)	5620-1¾ 544 (600-1¾)
CIRCLING	5840-1¼	738 (800-1¼)	5900-2¼ 798 (800-2¼)	5960-2¾ 858 (900-2¾)

REIL Rwy 4 and 22 0

MIRL Rwy 4-22 0

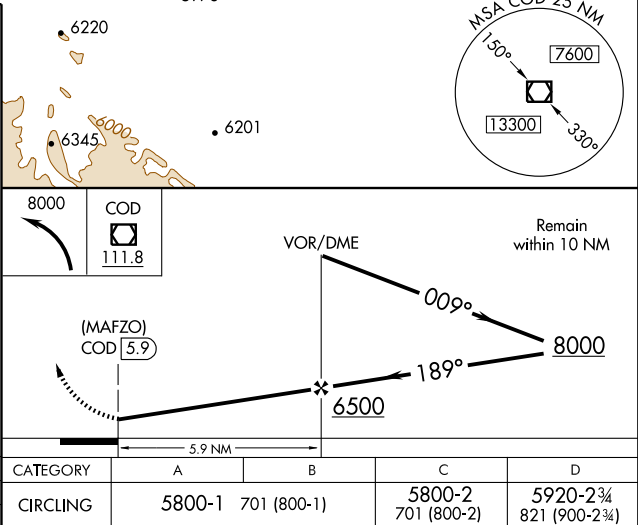
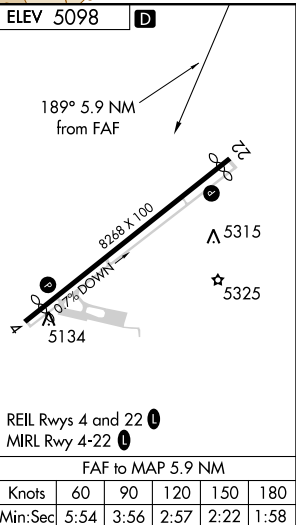
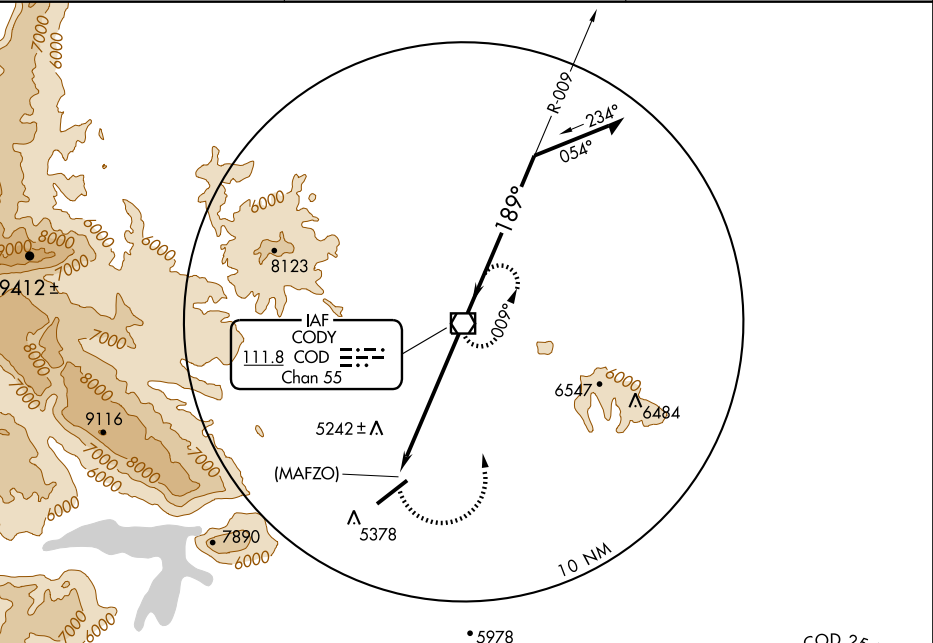
VOR/DME COD 111.8 Chan 55	APP CRS 189°	Rwy Idg TDZE Apt Elev 5098	N/A N/A 5098
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MISSED APPROACH: Climbing left turn to 8000 direct COD VOR/DME and hold.

AWOS-3 135.075	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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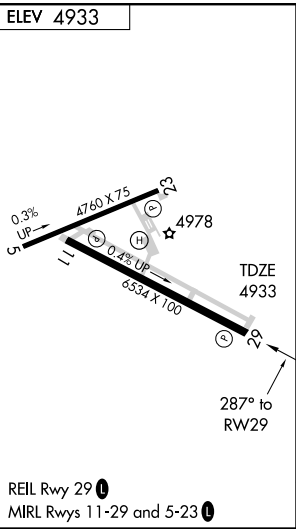
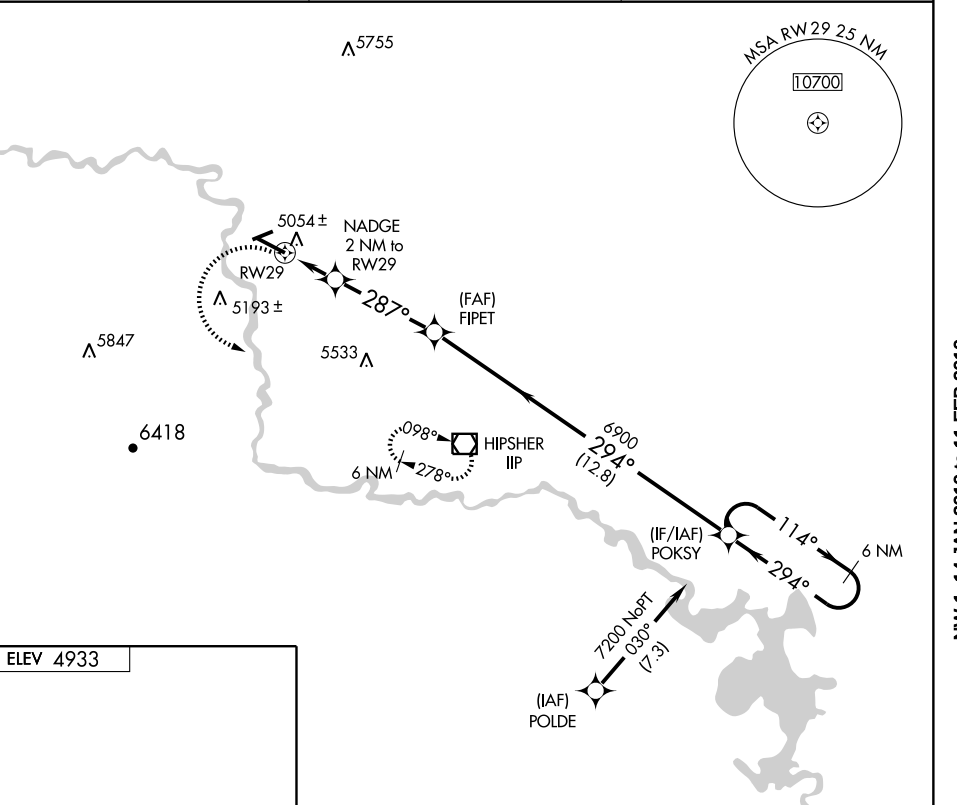


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DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 7900 direct IIP VOR/DME and hold, continue-in-hold to 7900.

ASOS 135.225	DENVER CENTER 135.6 363.025	UNICOM 122.8 (CTAF) 0
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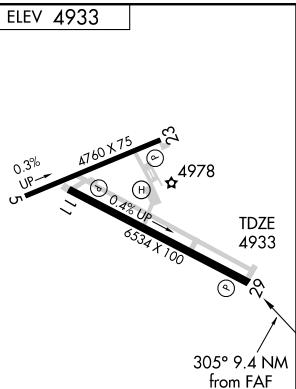
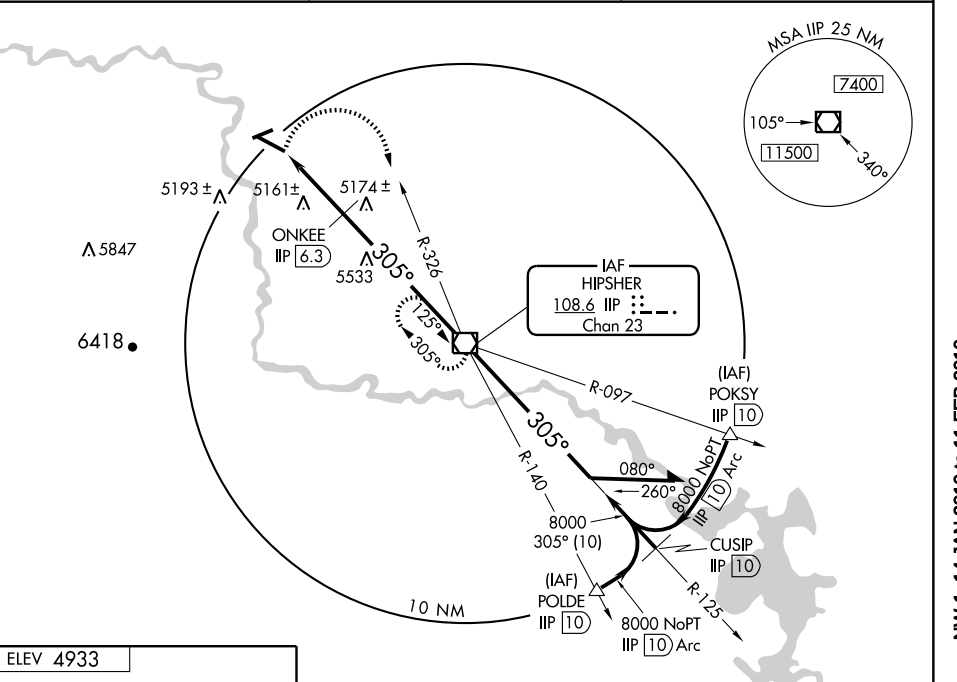
7900 IIP	POKSY 6 NM Holding Pattern			
	NADGE 2 NM to RW29	FIPET	294°	114° → 7200
1.2 NM to RW29				
287° to RW29				
5620				
3.00° TCH 40				
1.2 0.8 4.1 NM 12.8 NM				
CATEGORY	A	B	C	D
LNAB MDA	5360-1	427 (500-1)	5360-1¼ 427 (500-1¼)	5360-1½ 427 (500-1½)
CIRCLING	5520-1	587 (600-1)	5520-1½ 587 (600-1½)	5540-2 607 (700-2)

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MISSED APPROACH: Climbing right turn to 8000 via heading 160° and IIP VOR/DME R-326 to IIP VOR/DME and hold, continue climb-in-hold to 8000.

ASOS 135.225	DENVER CENTER 135.6 363.025	UNICOM 122.8 (CTAF) 0
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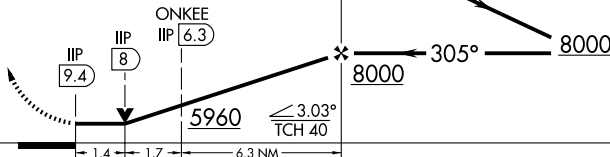


REIL Rwy 29 0

MIRL Rwys 11-29 and 5-23 0

FAF to MAP 9.4 NM

Knots	60	90	120	150	180
Min:Sec	9:24	6:16	4:42	3:46	3:08

8000 	IIP R-326 <u>108.6</u>	IIP  <u>108.6</u>	VOR/DME Remain within 10 NM			
						
CATEGORY	A		B		C	D
S-29	5960-1¼ 1027 (1100-1¼)		5960-1½ 1027 (1100-1½)		5960-3	1027 (1100-3)
CIRCLING	5960-1¼ 1027 (1100-1¼)		5960-1½ 1027 (1100-1½)		5960-3	1027 (1100-3)
ONKEE FIX MINIMUMS						
S-29	5420-1 487 (500-1)		5420-1¼ 487 (500-1¼)		5420-1½ 487 (500-1½)	
CIRCLING	5520-1 587 (600-1)		5520-1½ 587 (600-1½)		5540-2 607 (700-2)	

LOC/DME I-EVW	APP CRS	Rwy Idg	7300
108.9	234°	TDZE	7143
Chan 26		Apt Elev	7143

ILS or LOC/DME RWY 23

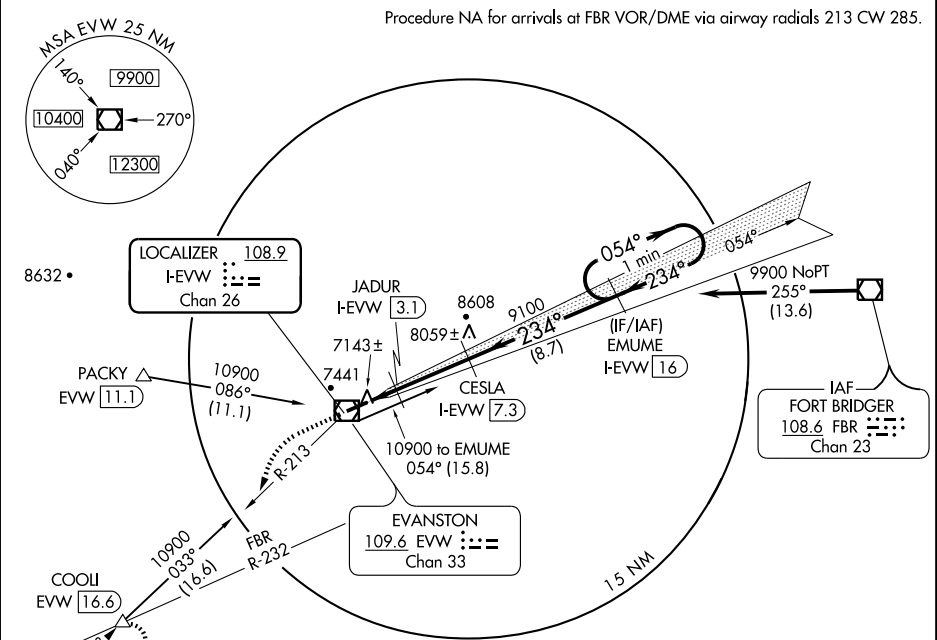
EVANSTON-UINTA COUNTY BURNS FIELD (EVW)

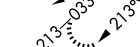
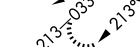
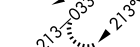
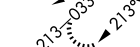
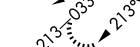
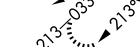
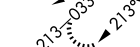
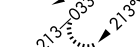
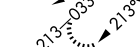
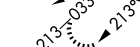
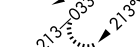
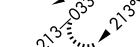
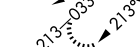
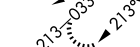
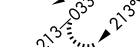
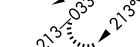
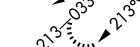
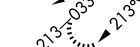
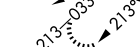
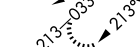
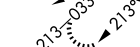
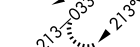
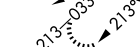
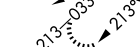
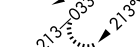
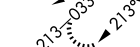
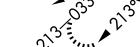
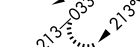
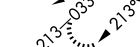
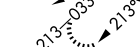
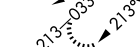
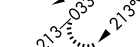
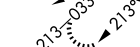
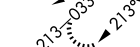
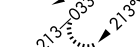
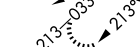
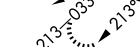
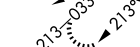
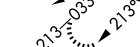
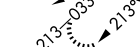
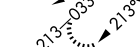
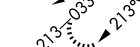
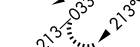
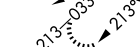
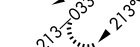
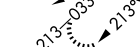
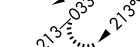
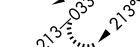
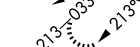
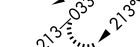
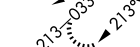
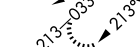
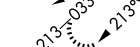
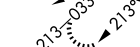
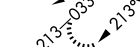
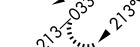
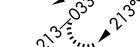
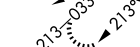
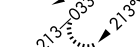
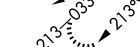
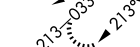
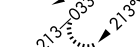
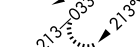
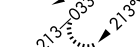
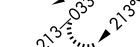
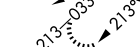
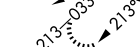
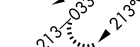
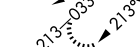
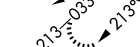
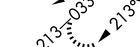
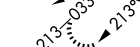
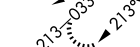
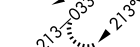
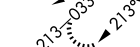
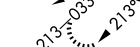
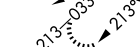
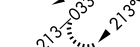
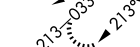
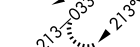
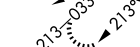
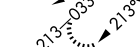
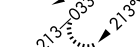
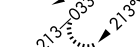
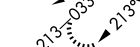
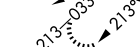
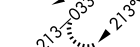
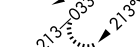
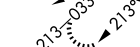
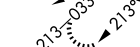
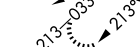
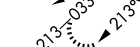
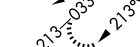
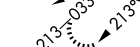
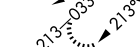
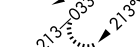
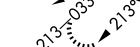
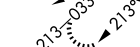
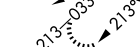
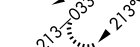
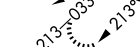
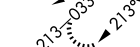
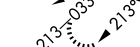
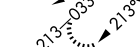
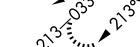
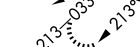
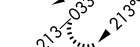
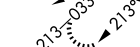
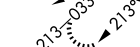
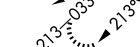
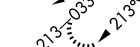
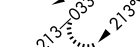
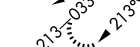
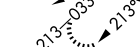
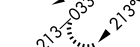
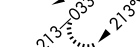
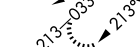
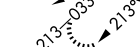
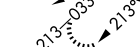
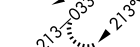
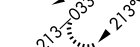
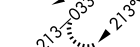
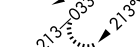
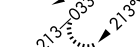
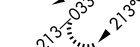
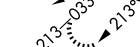
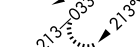
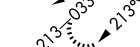
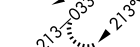
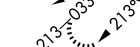
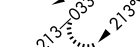
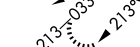
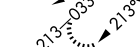
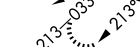
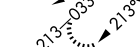
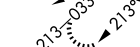
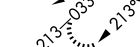
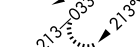
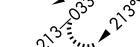
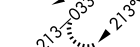
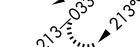
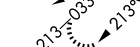
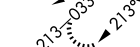
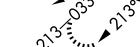
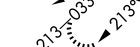
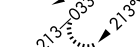
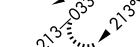
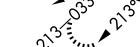
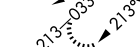
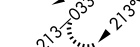
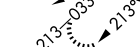
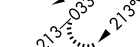
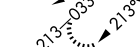
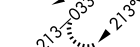
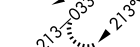
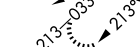
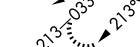
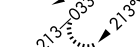
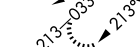
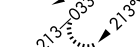
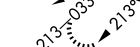
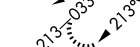
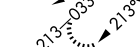
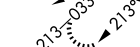
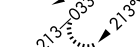
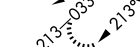
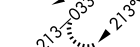
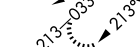
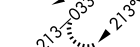
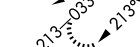
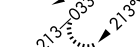
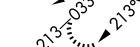
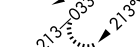
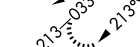
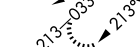
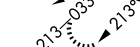
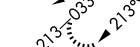
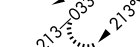
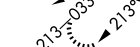
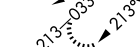
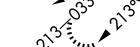
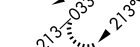
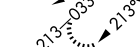
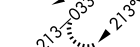
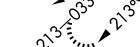
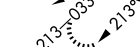
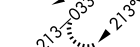
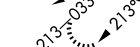
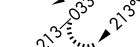
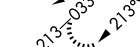
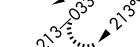
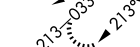
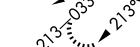
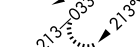
⚠ For inoperative MALSR, increase S-LOC 23
Cat D visibility to 1 mile. When local altimeter
setting not received, procedure NA.

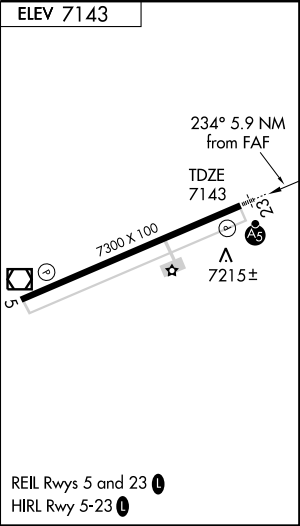
MALSR

MISSED APPROACH: Climb to 7600 then climbing left turn to 12000
via EVW VOR/DME R-213 to COOLI/EVW VOR/DME 16.6 DME
and hold, continue climb-in-hold to 12000.

ASOS 120.0	SALT LAKE CENTER 127.7 354.125	GCO 121.72	UNICOM 123.0 (CTAF) 0
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		• 9195		10359 •	
7600 ↑		12000 EVW R-213		COOL △	
		Use I-EVW DME when on the localizer course.			
		*LOC only			
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					



WAAS CH 78302 W05A	APP CRS 054°	Rwy Idg 7300 TDZE 7141 Apt Elev 7143
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RNAV (GPS) RWY 5

EVANSTON-UINTA COUNTY BURNS FIELD (EVW)

T If local altimeter setting not received, procedure NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -29°C (-20°F) or above 34°C (94°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 12000 direct JADUR and via 075° track to EXILE and hold, continue climb-in-hold to 12000.

ASOS
120.0

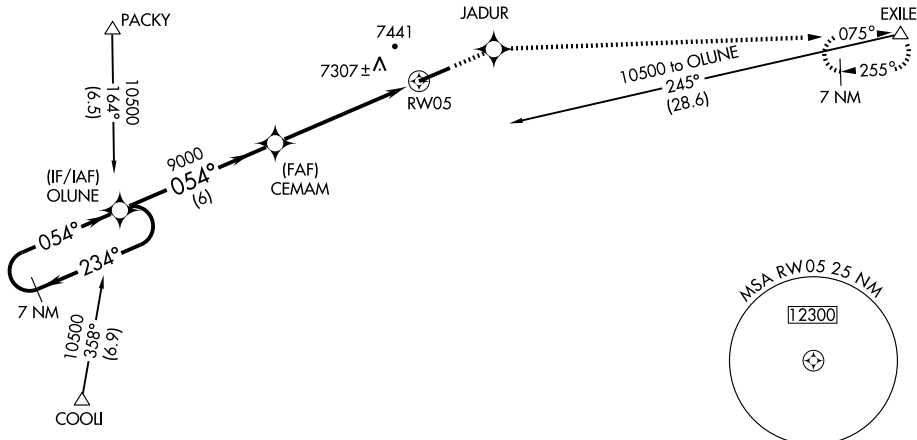
SALT LAKE CENTER
127.7 354.125

GCO
121.72

UNICOM
123.0 (CTAF) **L**

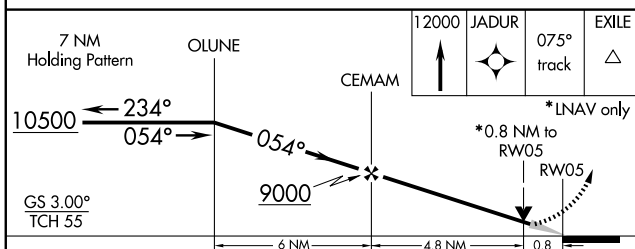
8632

8608

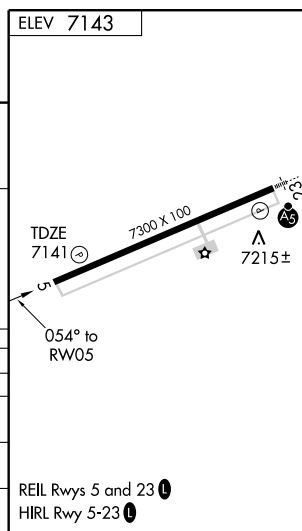


9195

ELEV 7143



CATEGORY	A	B	C	D
LPV DA		7391-3 $\frac{3}{4}$	250 (300-3 $\frac{3}{4}$)	
LNAV/ VNAV DA		7643-13 $\frac{3}{4}$	502 (500-13 $\frac{3}{4}$)	
LNAV MDA		7440-1	299 (300-1)	
CIRCLING	7580-13 $\frac{3}{4}$ 437 (500-13 $\frac{3}{4}$)	7720-13 $\frac{3}{4}$ 577 (600-13 $\frac{3}{4}$)	7760-13 $\frac{3}{4}$ 617 (700-13 $\frac{3}{4}$)	7760-2 617 (700-2)



WAAS CH 77905 W23A	APP CRS 234°	Rwy Idg 7300 TDZE 7143 Apt Elev 7143
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RNAV (GPS) RWY 23

EVANSTON-UINTA COUNTY BURNS FIELD (EVW)



For inoperative MALSR, increase LPV all Cats. visibility to 1, LNAV/VNAV Cat. D to 1 and LNAV Cat. D to 1¼.
When local altimeter setting not received, procedure NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -29°C (-20°F) or above 34°C (93°F). DME/DME RNP-0.3 NA.

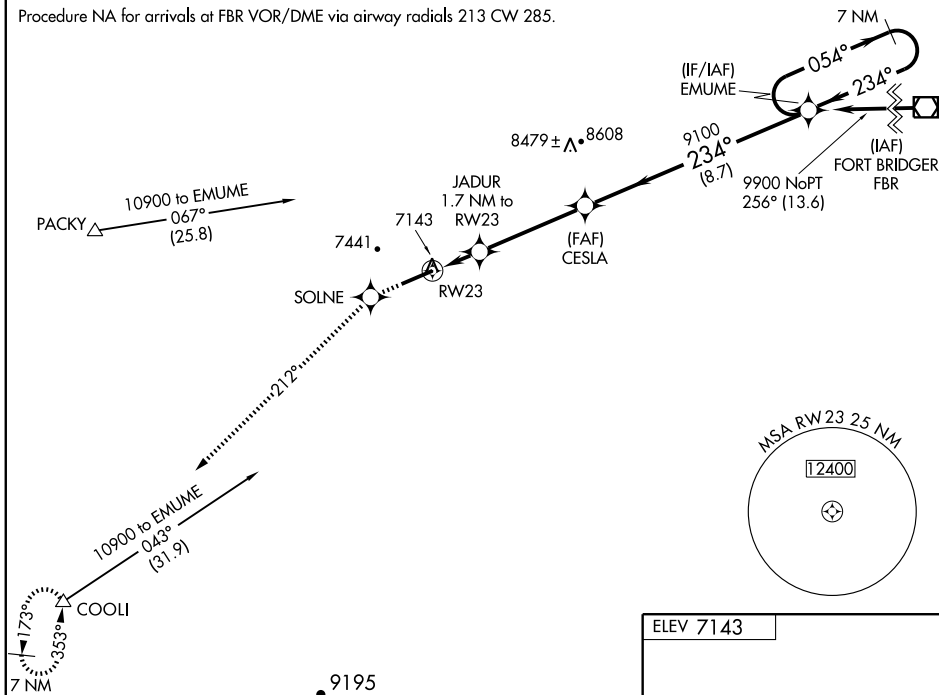
MALSR



MISSED APPROACH: Climb to 12000 direct SOLNE and via 212° track to COOL and hold, continue climb-in-hold to 12000.

ASOS 120.0	SALT LAKE CENTER 127.7 354.125	GCO 121.72	UNICOM 123.0 (CTAF) 0
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Procedure NA for arrivals at FBR VOR/DME via airway radials 213 CW 285.



NW-1. 14 JAN 2010 to 11 FEB 2010

12000 ↑	SOLNE ✦	212° track	COOLI △	JADUR 1.7 NM to RW23 7 NM Holding Pattern 054° → 9900 ← 234° 9100 GS 3.00° TCH 47				
*LNAV only								
CATEGORY		A		B		C		D
LPV	DA			7393-½		250 (300-½)		
LNAV/ VNAV	DA	7443-½		300 (300-½)		7443-¾ 300 (300-¾)		
LNAV	MDA	7520-½		377 (400-½)		7520-1 377 (400-1)		
CIRCLING		7580-1 437 (500-1)		7720-1 577 (600-1)		7760-1¾ 617 (700-1¾)		7760-2 617 (700-2)

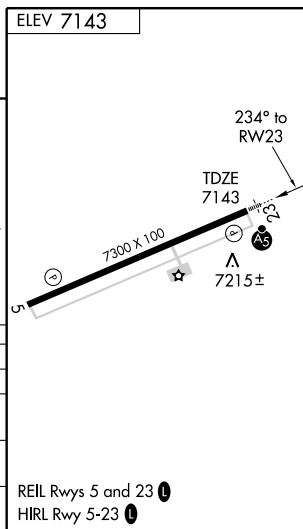


Figure 10-1 illustrates a 4th Step Downwind Profile. The profile starts at 10600 ft, descends to 8800 ft, and then to 7600 ft. Key features include: a 224° heading, a 044° heading, a 3.06° TCH 55, a 255° turn, and a 044° 5 NM from FAF. The profile is divided into four segments: A (6.1 NM), B (3.8 NM), C (1.2 NM), and D (1.2 NM). The final segment D is a 1.2 NM segment at 7600 ft.

CATEGORY	A	B	C	D
S-5	7560-1	419 (500-1)	7560-1 1/4	419 (500-1 1/4)
CIRCLING	7580-1 437 (500-1)	7720-1 577 (600-1)	7760-1 3/4 617 (700-1 3/4)	7760-2 617 (700-2)

VOR/DME EVW	APP CRS	Rwy Idg	7300
109.6	237°	TDZE	7143
Chan 33		Apt Elev	7143

For inoperative MALS, increase S-23 Cat. D visibility to 1 1/4 mile.

If local altimeter setting not received, procedure NA.

MAISLR

MISSED APPROACH: Climb to 7600 then climbing left turn to 12000 via EVW VOR/DME R-213 to COOLI/16.6 DME and hold, continue climb-in-hold to 12000.

ASOS 120.0	SALT LAKE CENTER 127.7 354.125	GCO 121.72	UNICOM 123.0 (CTAF) 0
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Procedure NA for arrivals at FBR VOR/DME via airway radials 213 CW 285.

MSA EVW 25 NM

EVANSTON 109.6 EVW Chan 33

10800 to YOPUT 057° (13.3)

FODIS EVW 3.4

8608 8179±

9100 237° (6.1) (IF/IAF) YOPUT EVW 13.3

7441 7137±

LASLE EVW 7.2

CIDSA EVW 2.3

UCIV EVW 1.2

10100 NoPT 250° (15.7) R-057

10800 053° 16.61 R-213

COOLI EVW 16.6 033° 21.3 R-232

9195 10359 9115

15 NM

7600	12000	COOLI	One Minute Holding Pattern			
↑	EVW R-213	△				
VOR/DME		UCIV EVW 1.2	CIDSA EVW 2.3	FODIS EVW 3.4	LASLE EVW 7.2	YOPUT EVW 13.3
		3.13° TCH 45°	7560	7900	9100	10100
		1.1 NM	1.1 NM	3.8 NM	6.1 NM	
CATEGORY	A	B	C	D		
S-23	7500-1/2 357 (400-1/2)			7500-1 357 (400-1)		
CIRCLING	7580-1 437 (500-1)	7720-1 577 (600-1)	7760-1 3/4 617 (700-1 3/4)	7760-2 617 (700-2)		

ELEV 7143

237° 6 NM from FAF

TDZE 7143

7300 X 100

7215±

REIL Rwy 5 and 23 0

HIRL Rwy 5-23 0

NW-1. 14 JAN 2010 to 11 FEB 2010

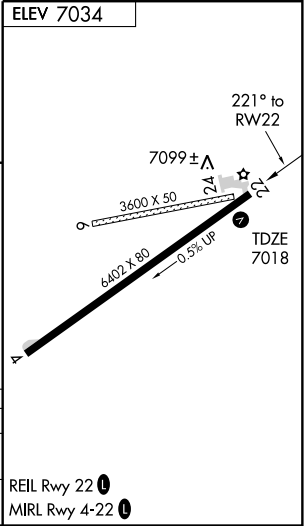
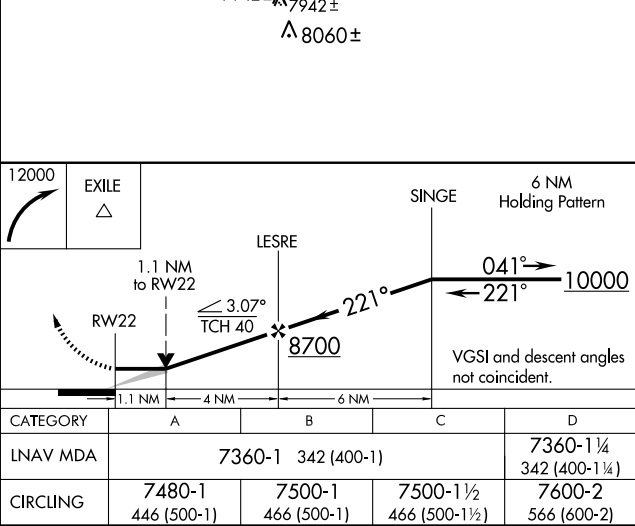
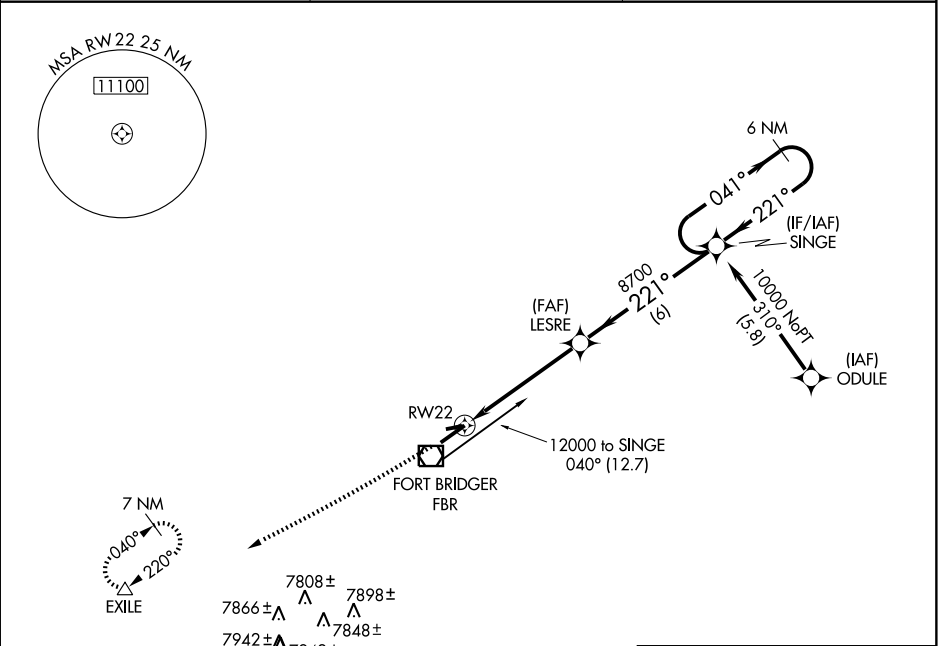
APP CRS	Rwy Idg	6402
221°	TDZE	7018
	Apt Elev	7034

RNAV (GPS) RWY 22

FORT BRIDGER (FBR)

NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA	MISSED APPROACH: Climbing right turn to 12000 direct EXILE WP and hold.
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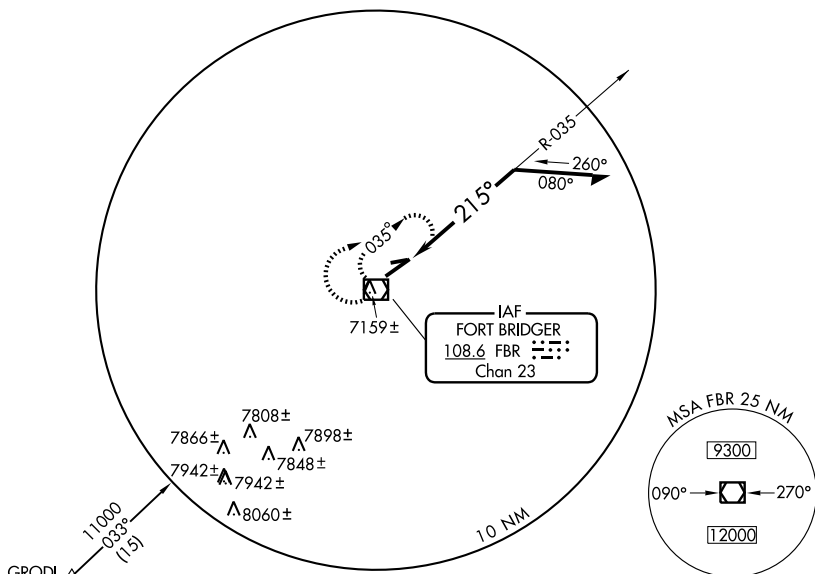
AWOS-1 118.8	CASPER RADIO 122.3	UNICOM 122.8 (CTAF) 0
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VOR RWY 22
FORT BRIDGER (FBR)

MISSED APPROACH: Climbing right turn to 9000 in FBR VOR/DME holding pattern.

UNICOM
122.8 (CTAF) **L**



8451

ELEV 7034

FBR



108.6

VOR/DME*

Remain
within 10 NM

03.50

*Maintain 8700 or above until established outbound for procedure turn.

215° to
VOR/DME

7099 ± 1

4

7 TDZE

7018

7515

CATEGORY	A	B	C	D
S-22	7440-1 422 (500-1)		7440-1 $\frac{1}{4}$ 422 (500-1 $\frac{1}{4}$)	
CIRCLING	7480-1 446 (500-1)	7500-1 466 (500-1)	7500-1 $\frac{1}{2}$ 466 (500-1 $\frac{1}{2}$)	7600-2 566 (600-2)

REIL Rwy 22 L

MIRL Rwy 4-22 **L**

LOC/DME I-LLT	APP CRS	Rwy Idg	7500
110.1	338°	TDZE	4365
Chan 38		Apt Elev	4365

For inoperative MALS, increase S-LOC Cat A, and GILYE FIX MINIMUMS S-LOC Cat A/B visibilities to 1.

Inoperative table does not apply to S-ILS 34.

When VGSI inoperative, circling Rwy 3 NA at night.

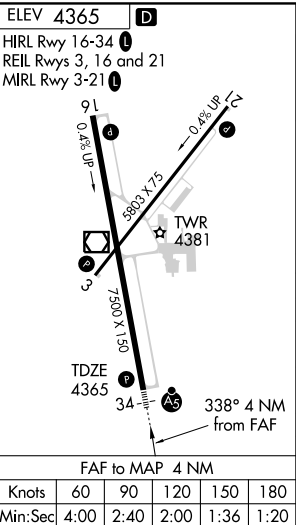
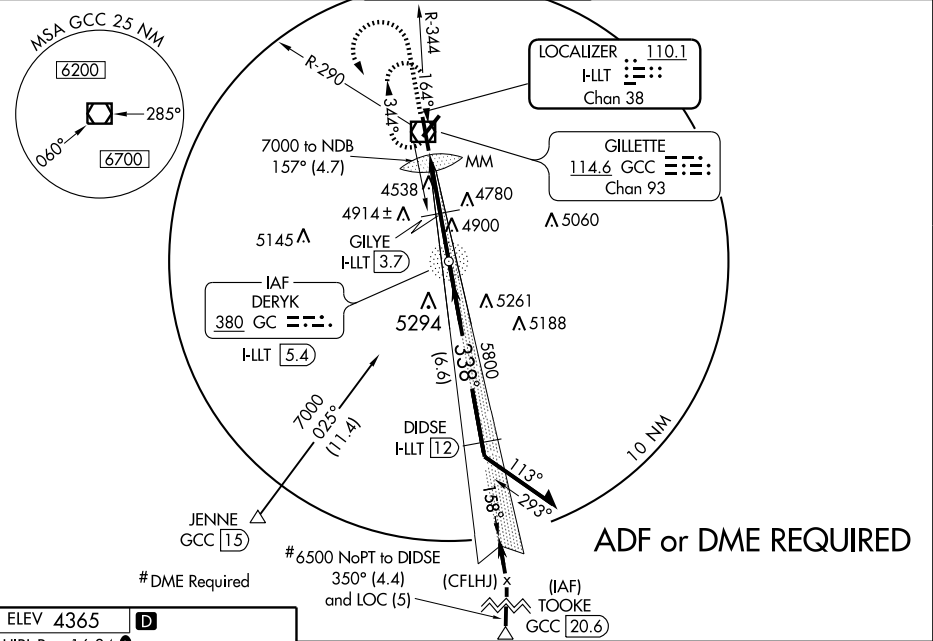
If local altimeter setting not received, procedure NA.

ADF or DME required.

MALS

MISSED APPROACH: Climb to 5700 then climbing left turn to 7000 via heading 150° and GCC VOR/DME R-290 to GCC VOR/DME and hold, continue climb-in-hold to 7000.

ASOS	DENVER CENTER	GILLETTE TOWER*	GND CON	UNICOM
124.175	135.6 363.025	118.5 (CTAF) 0	121.7	122.95



5700	7000	GCC R-290 114.6	GCC 114.6	DERYK NDB I-LLT 5.4	Remain within 10 NM
150°					VGSI and ILS glidepath not coincident.
Use I-LLT DME when on LOC course					
I-LLT 1.4	MM	I-LLT 3	GILYE I-LLT 3.7	5706 158° 6600	338° 5800
* LOC only				5200*	GS 3.00° TCH 47
0.4	1.2	0.7	1.7 NM		
CATEGORY		A	B	C	D
S-ILS 34		4565-¾ 200 (200-¾)			
S-LOC 34		5200-¾ 835 (900-¾)	5200-2 835 (900-2)	5200-2¼ 835 (900-2¼)	
CIRCLING		5200-1 835 (900-1)	5200-1¼ 835 (900-1¼)	5200-2½ 835 (900-2½)	5280-3 915 (1000-3)
GILYE FIX MINIMUMS					
S-LOC 34		4940-¾ 575 (600-¾)	4940-1 575 (600-1)	4940-1¼ 575 (600-1¼)	
CIRCLING		5040-1 675 (700-1)	5120-2¼ 755 (800-2¼)	5280-3 915 (1000-3)	

▼

DME/DME RNP- 0.3 NA. Baro-VNAV NA below -23°C (-9°F).

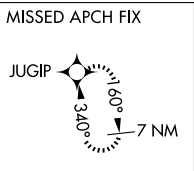
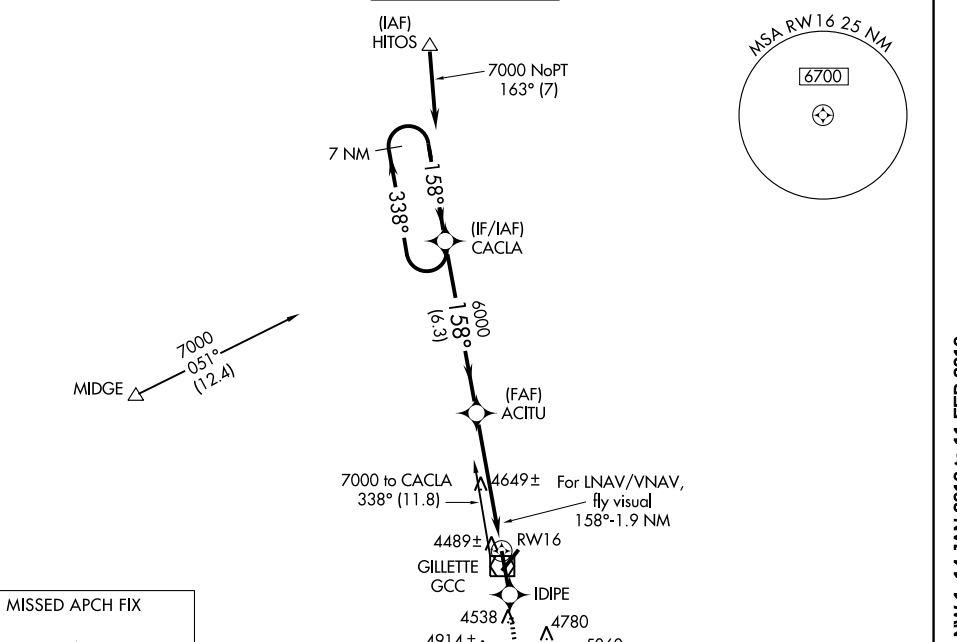
▲

If local altimeter setting not received, procedure NA.

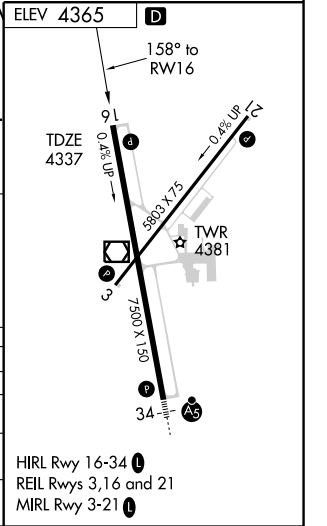
When VGSI inoperative, circling Rwy 3 NA at night.

MISSED APPROACH: Climb to 7000 direct IDIPE and via 161° track to JUGIP and hold.

ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER ★ 118.5 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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7 NM Holding Pattern		CACLA	*LNAV only		7000 	IDIPE 	161° track	JUGIP 
7000 ← 338° 158° →			ACITU	158°	*1.6 NM to RW16	For LNAV/VNAV, Fly visual, 158°-1.9 NM		
GS 3.00° TCH 45°			6000					
		6.3 NM	3.4 NM	1.6 NM				
CATEGORY	A	B	C	D				
LPV DA		4660-1¼	323 (300-1¼)					
LNAV/VNAV DA		4980-2	643 (700-2)					
LNAV MDA	4900-1	563 (600-1)	4900-1½ 563 (600-1½)	4900-1¾ 563 (600-1¾)				
CIRCLING	5040-2¼	675 (700-2¼)	5120-2¼ 755 (800-2¼)	5280-3 915 (1000-3)				



WAAS

Chan 86204

W34A

APP CRS

338°

Rwy Idg

TDZE

Apt Elev

7500

4365

4365

▼

▲

Inoperative table does not apply to LPV and LNAV/VNAV. For inoperative MALSR, increase LNAV Cat A visibility to 1. When VGSI inoperative, Circling Rwy 3 NA at night. If local altimeter setting not received, procedure NA. DME/DME RNP- 0.3 NA. Baro-VNAV NA below -23°C (-9°F)

MALSR

MISSED APPROACH: Climb to 7000 direct ACITU and via 261° track to MIDGE and hold.

ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER★ 118.5 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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ELEV 4365

D

HIRL Rwy 16-34

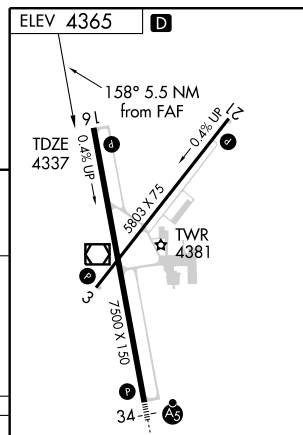
REIL Rws 3,16 and 21

MIRL Rwy 3-21

7000	ACITU	261° track	MIDGE	VGSI and RNAV glidepath not coincident	7 NM Holding Pattern
For LNAV/VNAV, fly visual 338°-3.3 NM	HIVOL 2.5 NM to RW34	OBURE	FEKIX		
5200	5800	5200	5800	158°	7000
2.5 NM	1.8 NM	8.3 NM			GS 3.00° TCH 52
CATEGORY	A	B	C	D	
LPV	DA	4620-3/4	255 (300-3/4)		
LNAV/VNAV	DA	5480-2 1115 (1200-2)	5480-3 1115 (1200-3)		
LNAV	MDA	5120-3/4 755 (800-3/4)	5120-13/4 755 (800-13/4)	5120-2 755 (800-2)	
CIRCLING		5480-4 1115 (1200-4)			

NW-1. 14 JAN 2010 to 11 FEB 2010

MISSED APPROACH: Climbing left turn to 7000 via heading 308° and GCC R-338 to ODECA/14.5 DME and hold.

UNICOM
122.95

NW-1. 14 JAN 2010 to 11 FEB 2010

CATEGORY	A	B	C	D
S-16	4920-1	583 (600-1)	4920-1½ 583 (600-1½)	4920-1¾ 583 (600-1¾)
CIRCLING	5040-1	675 (700-1)	5120-2¼ 755 (800-2¼)	5280-3 915 (1000-3)

HIRL Rwy 16-34 **L**
REIL Rwy 3, 16 and 21
MIRL Rwy 3-21 **L**

VOR/DME GCC 114.6 Chan 93	APP CRS 334°	Rwy Idg TDZE Apt Elev 7500 4365 4365
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VOR/DME RWY 34

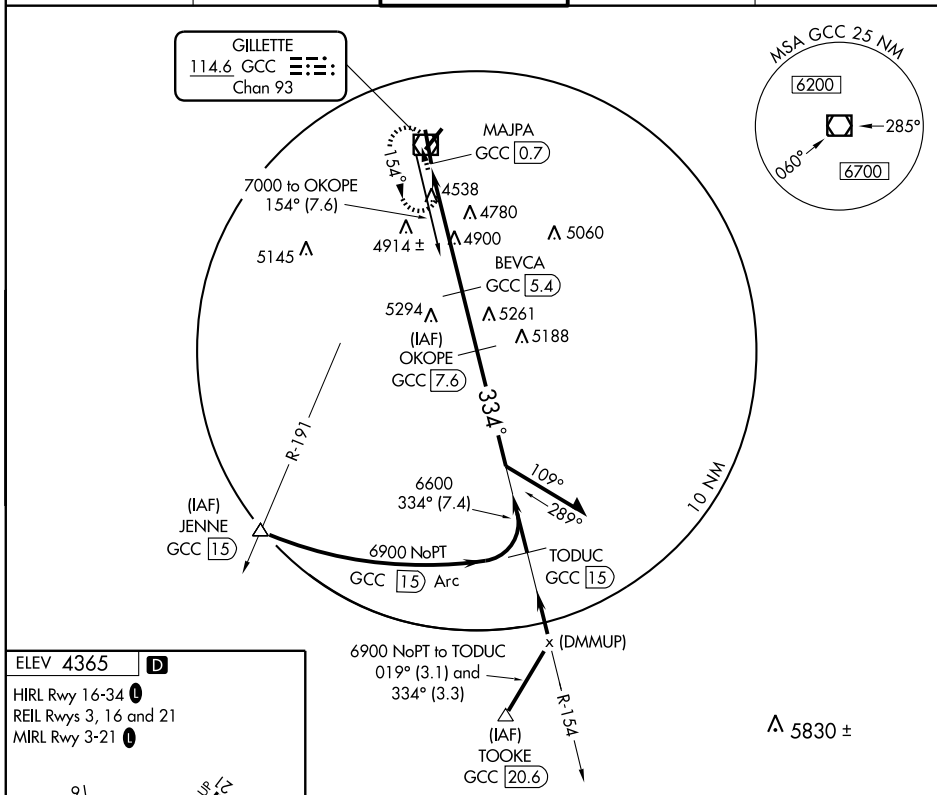
GILLETTE-CAMPBELL COUNTY (GCC)

- ▲** For inoperative MALS, increase S-34 Cat A visibility to 1.
▲ When VGSI inoperative, Circling Rwy 3 NA at night.
 If local altimeter setting not received, procedure NA.

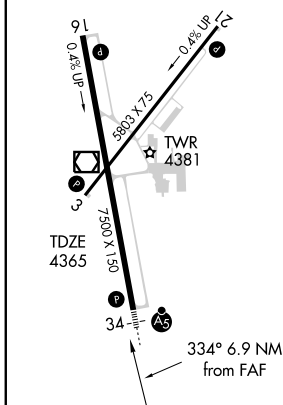


MISSED APPROACH: Climb to 7000 via GCC VOR/DME R-154 to GCC VOR/DME and hold, continue climb-in-hold to 7000.

ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER* 118.5 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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ELEV 4365 **D**
 HIRL Rwy 16-34
 REIL Rwy 3, 16 and 21
 MIRL Rwy 3-21



7000 GCC R-154 GCC 114.6	OKOPE GCC 7.6	BEVCA GCC 5.4	6600	154°	334°	6600	Remain within 10 NM
VOR/DME MAJPA GCC 0.7	GCC 3	5900	3.00° TCH 44	2.3 NM	2.4 NM	2.2 NM	
CATEGORY	A	B	C	D			
S-34	5200-3/4	835 (900-3/4)	5200-2 835 (900-2)	5200-2 1/4 835 (900-2 1/4)			
CIRCLING	5200-1 835 (900-1)	5200-1 1/4 835 (900-1 1/4)	5200-2 1/2 835 (900-2 1/2)	5280-3 915 (1000-3)			

NDB GEY	APP CRS	Rwy Idg	6302
275	318°	TDZE	3913
		Apt Elev	3939

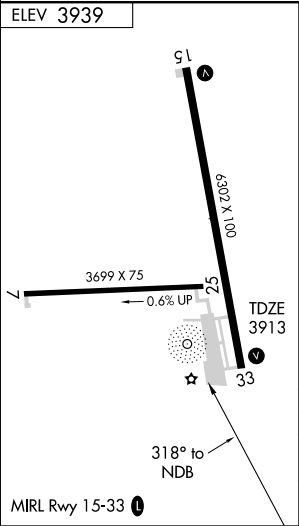
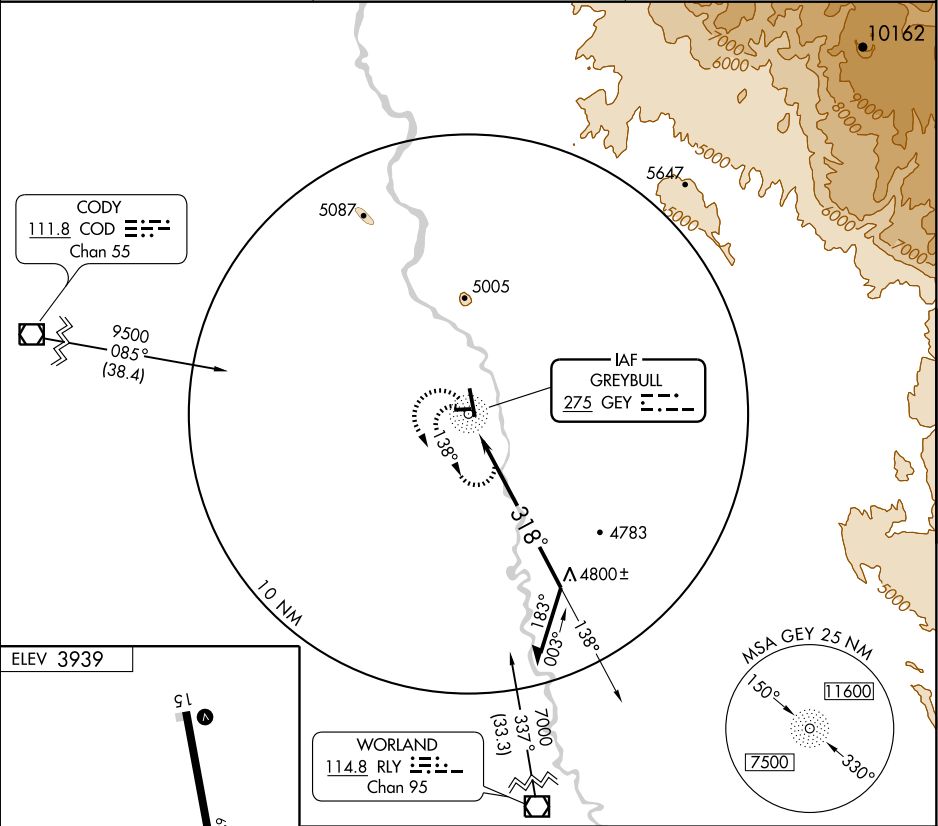
NDB RWY 33

GREYBULL/SOUTH BIG HORN COUNTY (GEY)

NA If local altimeter setting not received, use Worland altimeter setting and increase all MDAs 120 feet. Visibility reduction by helicopter NA.

MISSED APPROACH: Climbing left turn to 6500 in GEY holding pattern.

ASOS 135,325	SALT LAKE CENTER 133.25 285.6	CTAF 122.9
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6500	GEY 275	NDB	138°	6300	318°	Remain within 10 NM
CATEGORY	A	B	C	D		
S-33	5200-1¼ 1287 (1300-1¼)	5200-1½ 1287 (1300-1½)	5200-3	1287 (1300-3)		
CIRCLING	5200-1¼ 1261 (1300-1¼)	5200-1½ 1261 (1300-1½)	5200-3	1261 (1300-3)		

RNAV (GPS)-A

GREYBULL/ SOUTH BIG HORN COUNTY (GEY)

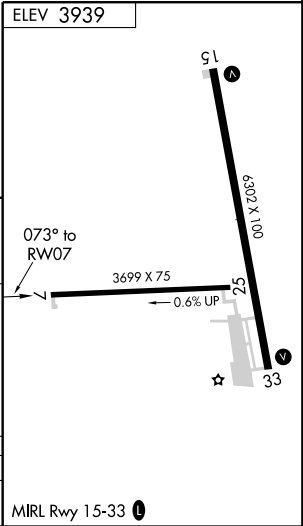
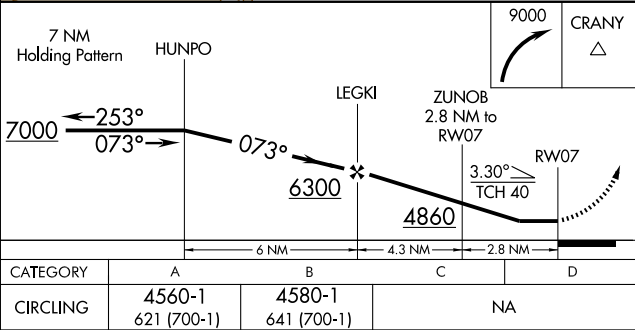
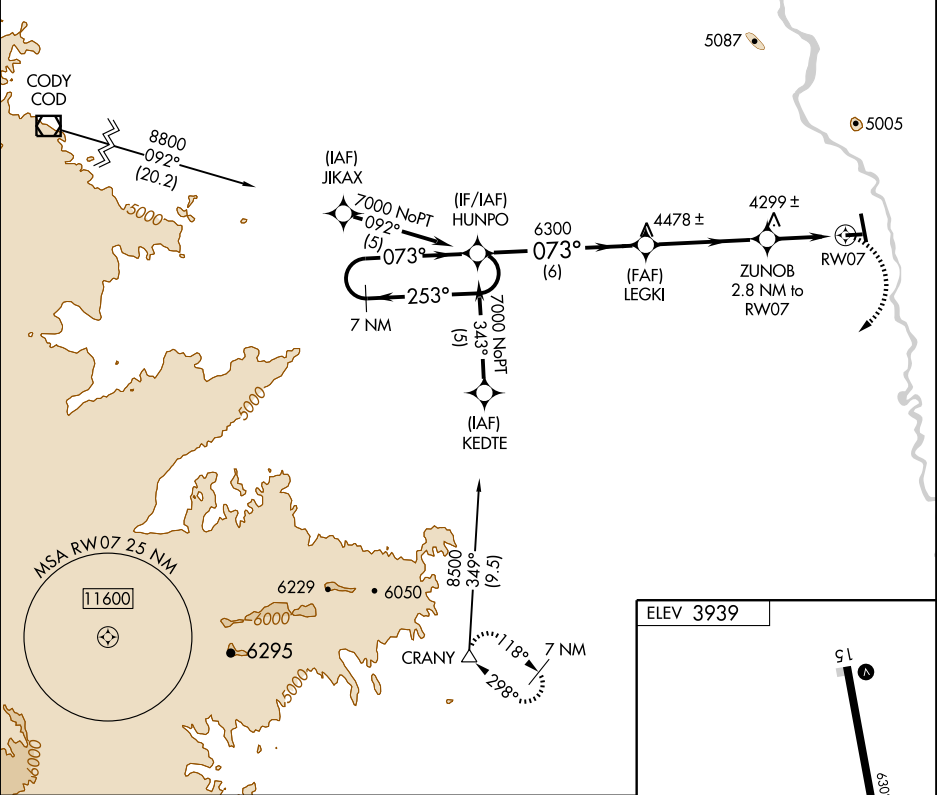
APP CRS	Rwy Idg	N/A
073°	TDZE	N/A
	Apt Elev	3939

DME/DME RNP -0.3 NA.
If local altimeter setting not received, use Worland Muni
altimeter setting and increase all MDAs 120 feet.
Circling to Rwy 7/25 NA at night.

MISSED APPROACH: Climbing right turn to 9000 direct
CRANY and hold, continue climb-in-hold to 9000.

ASOS 135.325	SALT LAKE CENTER 133.25 285.6	CTAF 122.9
-----------------	----------------------------------	---------------

Procedure NA for arrivals at COD VOR/DME via V85 northwest bound.



APP CRS	Rwy Idg	6302
335°	TDZE	3913
	Apt Elev	3939

RNAV (GPS) RWY 33

GREYBULL/ SOUTH BIG HORN COUNTY (GEY)

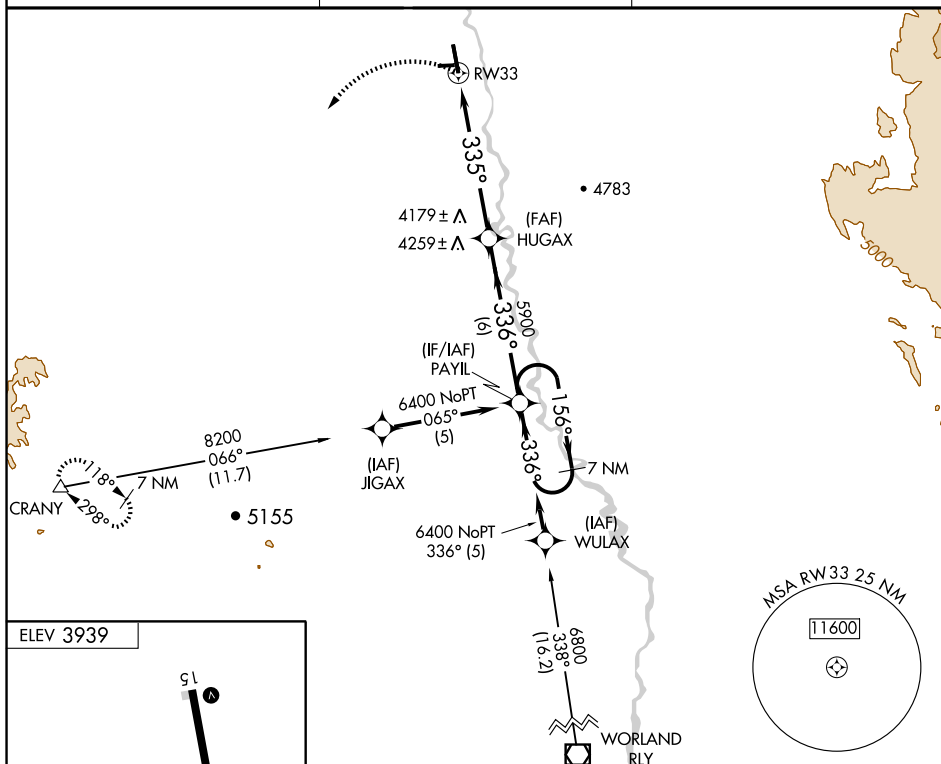
DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Worland Muni altimeter setting and increase all MDAs 120 feet.
VDP NA when using Worland altimeter setting.
Circling to Rwy 7/25 NA at night.

MISSED APPROACH: Climbing left turn to 9000 direct CRANY and hold, continue climb-in-hold to 9000.

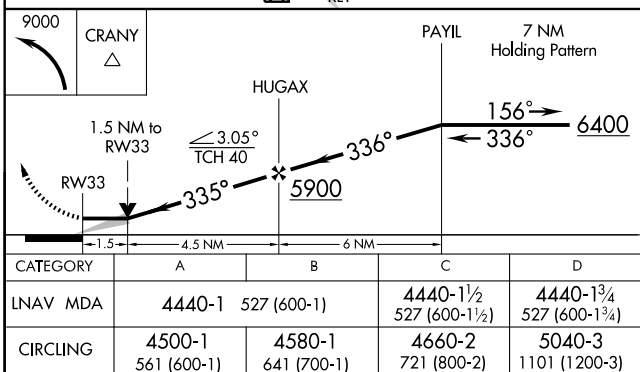
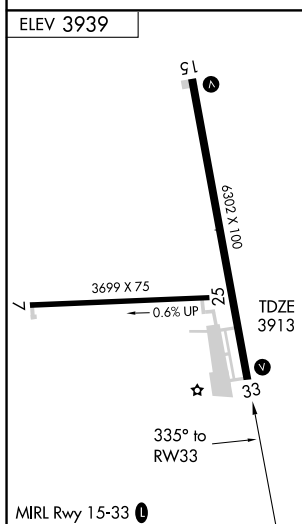
ASOS
135.325

SALT LAKE CENTER
133.25 285.6

CTAF
122.9 **L**



ELEV 3939



▼

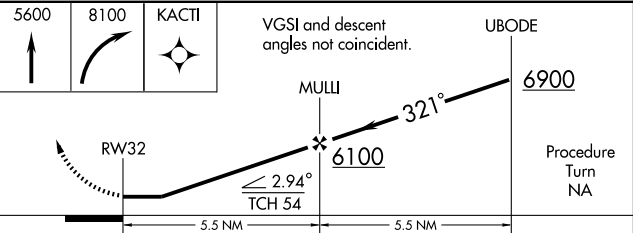
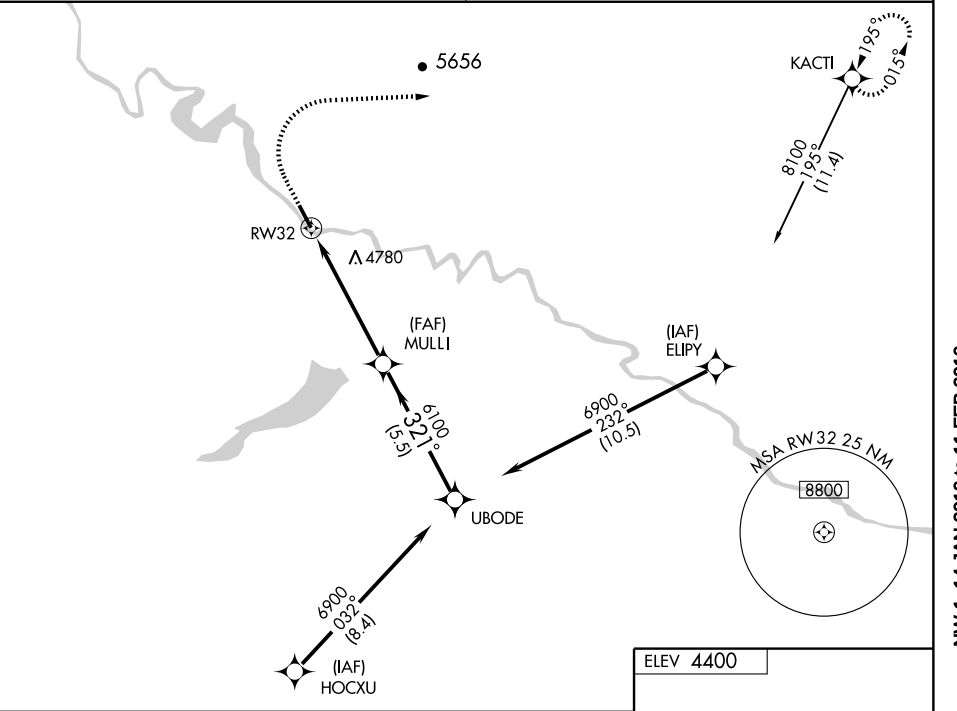
▲ NA

Obtain local altimeter setting on UNICOM, when not received use Scottsbluff, NE altimeter setting.
Descent angle NA when using Scottsbluff altimeter setting.

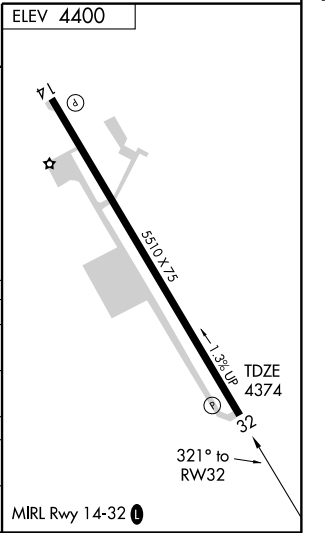
MISSED APPROACH: Climb to 5600 then climbing right turn to 8100 direct KACTI WP and hold.

DENVER CENTER
135.6 363.025

UNICOM
122.7 (CTAF) ①



CATEGORY	A	B	C	D
S-32	5040-1	666 (700-1)	5040-1¾ 666 (700-1¾)	5040-2 666 (700-2)
CIRCLING	5340-1¼ 940 (1000-1¼)	5340-1½ 940 (1000-1½)	5420-3	1020 (1100-3)
SCOTTSBLUFF, NE ALTIMETER SETTING MINIMUMS				
S-32	5240-1	866 (900-1)	5240-2¾	866 (900-2¾)
CIRCLING	5540-1¼ 1140 (1200-1¼)	5540-1½ 1140 (1200-1½)	5620-3	1220 (1300-3)



NDB GYZ	280	APP CRS	321°	Rwy Idg	5510
				TDZE	4374
				Apt Elev	4400

NDB RWY 32

GUERNSEY/CAMP GUERNSEY (TV6)

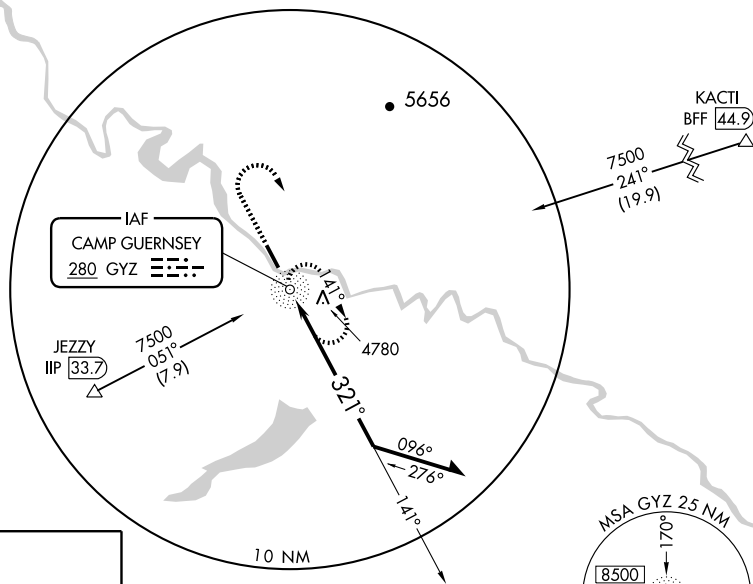
▼ When control tower closed obtain local altimeter setting on UNICOM, when not received use Scottsbluff, NE altimeter setting and increase all MDAs 200 feet and increase CATs B and C visibilities 1/4 mile.

▲ NA

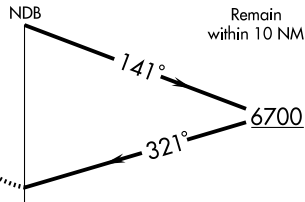
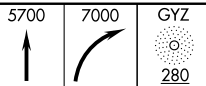
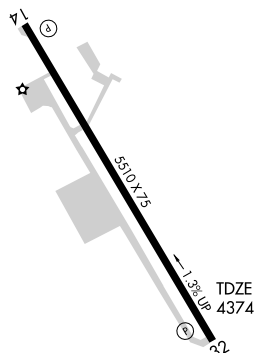
MISSED APPROACH: Climb to 5700 then climbing right turn to 7000 direct GYZ NDB and hold.

DENVER CENTER
135.6 363.025

UNICOM
122.7 (CTAF) 1



ELEV 4400



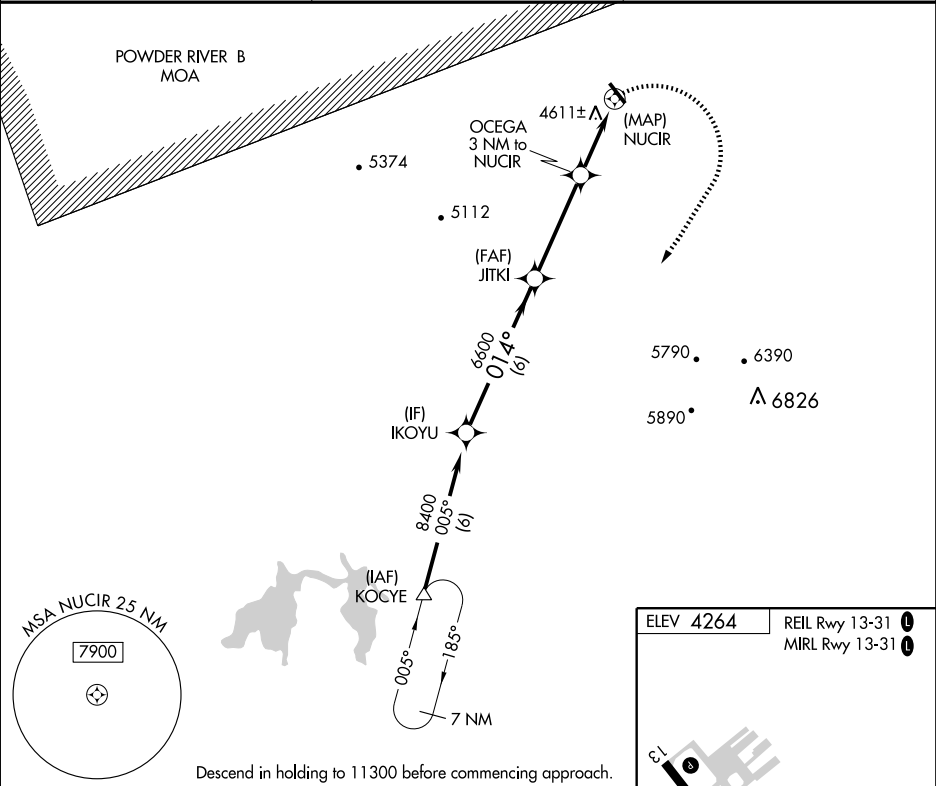
CATEGORY	A	B	C	D
S-32	5280-1¼ 906 (900-1¼)		5280-2¾ 906 (900-2¾)	5280-3 906 (900-3)
CIRCLING	5340-1¼ 940 (1000-1¼)	5340-1½ 940 (1000-1½)	5420-3	1020 (1100-3)

MIRL Rwy 14-32 1

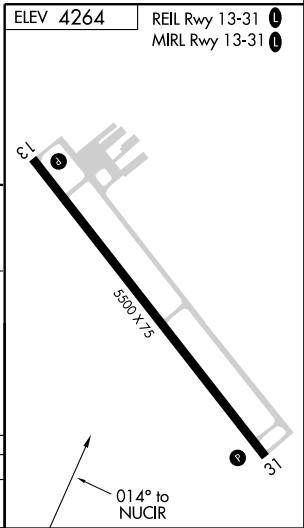
APP CRS	Rwy Idg	N/A
014°	TDZE	N/A
	Apt Elev	4264

Procedure NA at night. DME/DME RNP -0.3 NA. If local altimeter setting not received, use Gillette altimeter setting and increase all MDAs 120 feet.	MISSED APPROACH: Climbing right turn to 15000 direct KOCYE and hold, continue climb-in-hold to 15000.
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AWOS-3 128.755	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF)
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	IKOYU	JITKI	OCEGA 3 NM to NUCIR	NUCIR
	8400	6600	5620	
Procedure Turn NA	014°			
	6 NM	4 NM	3 NM	
CATEGORY	A	B	C	D
CIRCLING	4920-1 656 (700-1)	5060-1¼ 796 (800-1¼)	NA	

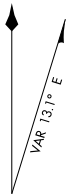


AIRPORT DIAGRAM

AL-504 (FAA)

JACKSON HOLE (JAC)
JACKSON, WYOMING

ATIS 120.625
JACKSON TOWER ★
118.075
GND CON
124.55



JANUARY 2005
ANNUAL RATE OF CHANGE
0.1° W

RWY 1-19
S75, D200, ST175, DT380

FIELD
ELEV
6451

186.4°

43°36.5'N

CONTROL
TOWER ★
6506

6300 X 150

TERMINAL

HANGARS

43°36'N

ELEV
6413

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS
IS REQUIRED.

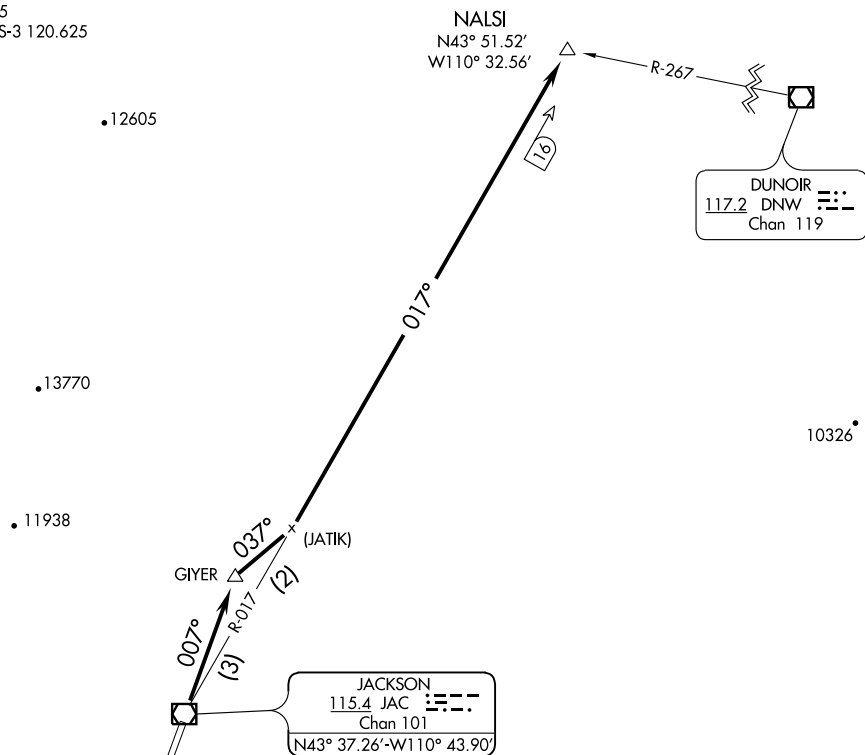
110°44.5'W

110°44'W

NW-1. 14 JAN 2010 to 11 FEB 2010

GEYSER FOUR DEPARTURE (OBSTACLE)

SALT LAKE CENTER
133.25 285.6
CASPER RADIO
122.05
CTAF
118.075
UNICOM
122.95
AWOS-3 120.625

TAKE-OFF MINIMUMS

Rwy 1: Standard with minimum climb of 450' per NM to 14000, or 4400-3 for climb in visual conditions.

Rwy 19: Not authorized - ATC.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climb to 14000' via JAC R-007 to GYER/JAC 3 DME, then right turn heading 037° to intercept JAC R-017 to NALSI INT/JAC 16 DME; or for climb visual conditions: Cross JAC VOR/DME northbound at or above 10800 then climb to 14000 via JAC R-017 to NALSI INT/JAC 16 DME.

LOC/DME I-JAC 109.1 Chan 28	APP CRS 187°	Rwy Idg 6300 TDZE 6451 Apt Elev 6451
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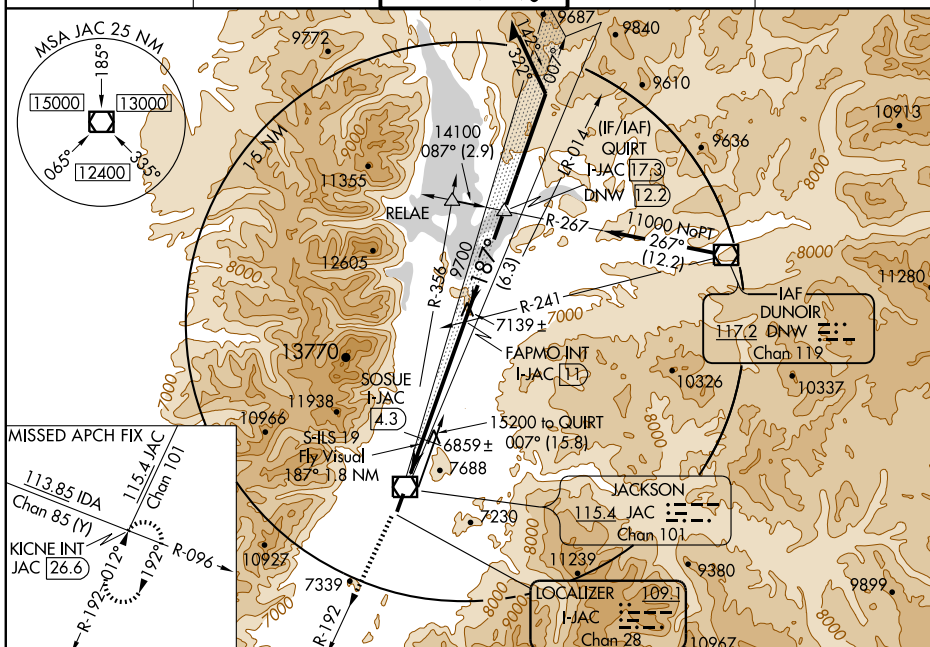
ILS or LOC Y RWY 19
JACKSON HOLE (JAC)

T	Inoperative table does not apply.
A NA	Circling NA east of Rwy 1-19.

MALS

MISSED APPROACH: Climb to 14000 via JAC VOR/DME R-192 to KICNE INT/JAC VOR/DME 26.6 DME and hold, continue climb-in-hold to 14000.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF) 0	GND CON 124.55	UNICOM 122.95
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ELEV 6451

187° 9.8 NM from FAF

6477' TDZE 6451

TWR 6506 ☆

6300 X 130

0.6% UP

6466 ±

HIRL Rwy 1-19

FAF to MAP 9 NM

	60	90	120	150	180
Knots	60	90	120	150	180
Min:Sec	9:48	6:32	4:54	3:55	3:16

LOC only

KICNE INT JAC 26.6

S-ILS 19 Fly Visual 187° 1.8 NM

SOSUE I-JAC 4.3

FAPMO INT I-JAC 11

QUIRT I-JAC 17.3

14100

11000

7500*

9700

9700

2.5 NM

0.6

6.7 NM

6.3 NM

Remain within 10 NM

007°

13100

187°

Use I-JAC DME when on LOC course.

GS 3.00 TCH 50

CATEGORY	A	B	C	D
S-ILS 19	7063-2 612 (700-2)			
S-LOC 19	7500-1¼ 1049 (1100-1¼)	7500-1½ 1049 (1100-1½)	7500-3	1049 (1100-3)
CIRCLING	7500-1¼ 1049 (1100-1¼)	7500-1½ 1049 (1100-1½)	7500-3	1049 (1100-3)

SOSUE FIX MINIMUMS

	7300-1 849 (900-1)	7300-1¼ 849 (900-1¼)	7300-2½ 849 (900-2½)	7300-2¾ 849 (900-2¾)
S-LOC 19	7300-1 849 (900-1)	7300-1¼ 849 (900-1¼)	7300-2½ 849 (900-2½)	7300-2¾ 849 (900-2¾)
CIRCLING	7300-1 849 (900-1)	7300-1¼ 849 (900-1¼)	7300-2½ 849 (900-2½)	7300-2¾ 849 (900-2¾)

LOC/DME F-JAC 109.1 Chan 28	APP CRS 187°	Rwy Idg 6300 TDZE 6451 Apt Elev 6451
---	------------------------	---

ILS or LOC Z RWY 19
JACKSON HOLE (JAC)

 Inoperative table does not apply to S-LOC 19. Circling NA east of Rwy 1-19.			MISSED APPROACH: Climb to 14000 via JAC VOR/DME R-192 to KICNE INT/JAC VOR/DME 26.6 DME and hold, continue climb-in-hold to 14000.	
ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF) 	GND CON 124.55	UNICOM 122.95

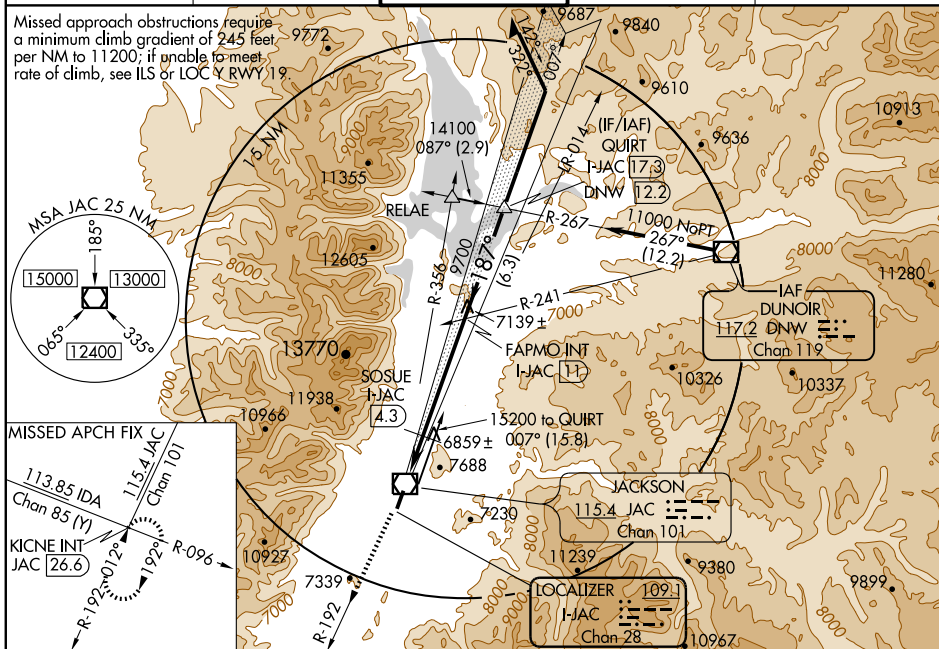


Diagram Details:

- ELEV 6451** (Top Left)
- 187° 9.8 NM from FAF** (Top Left)
- 6477** (Top Left)
- 61** (Top Left)
- TDZE 6451** (Top Left)
- TWR 6506** (Middle Left)
- 6300 X 130** (Middle Left)
- 0.6% Up** (Bottom Left)
- 6466 ±** (Bottom Left)
- HIRL Rwy 1-19** (Bottom Left)
- FAF to MAP 9.8 NM** (Bottom Left)

Table Details:

CATEGORY	A	B	C	D
S-ILS 19	6651- ³ / ₄ 200 (200- ³ / ₄)			
S-LOC 19	7500-1 ¹ / ₄ 1049 (1100-1 ¹ / ₄)	7500-1 ¹ / ₂ 1049 (1100-1 ¹ / ₂)	7500-3	1049 (1100-3)
CIRCLING	7500-1 ¹ / ₄ 1049 (1100-1 ¹ / ₄)	7500-1 ¹ / ₂ 1049 (1100-1 ¹ / ₂)	7500-3	1049 (1100-3)

SOSUE FIX MINIMUMS

S-LOC 19	6840- ³ / ₄ 389 (400- ³ / ₄)	6840-1 ¹ / ₄ 389 (400-1 ¹ / ₄)
CIRCLING	6840-1 389 (400-1)	6920-1 469 (500-1)

▼

▲

Circling NA east of Rwy 1-19. DME/DME RNP- 0.3 NA.
Inoperative table does not apply.
If local altimeter setting not received, procedure NA.

MALS
-
A4

MISSED APPROACH: Climb to 14000 direct CETLI and left turn via 097° track to BIYCA and left turn via 010° track to DNW VOR/DME and hold.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER* 118.075 (CTAF) A	GND CON 124.55	UNICOM 122.95
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14000 CETLI 097° track BIYCA 010° track DNW EDECO 6 NM Holding Pattern				
RWY 19 GIYER 3.5 NM to RWY 19 FEVOP 007° 187° 11800 7780 9800 ≤3.45° TCH 55 VGSI and descent angles not coincident.				
3.5 NM 5.5 NM 10 NM				
CATEGORY	A	B	C	D
LNAV MDA	7640-1¼ 1189 (1200-1¼)	7640-1½ 1189 (1200-1½)	7640-3	1189 (1200-3)
CIRCLING	7640-1¼ 1189 (1200-1¼)	7640-1½ 1189 (1200-1½)	7640-3	1189 (1200-3)

HIRL Rwy 1-19 L

NW-1. 14 JAN 2010 to 11 FEB 2010

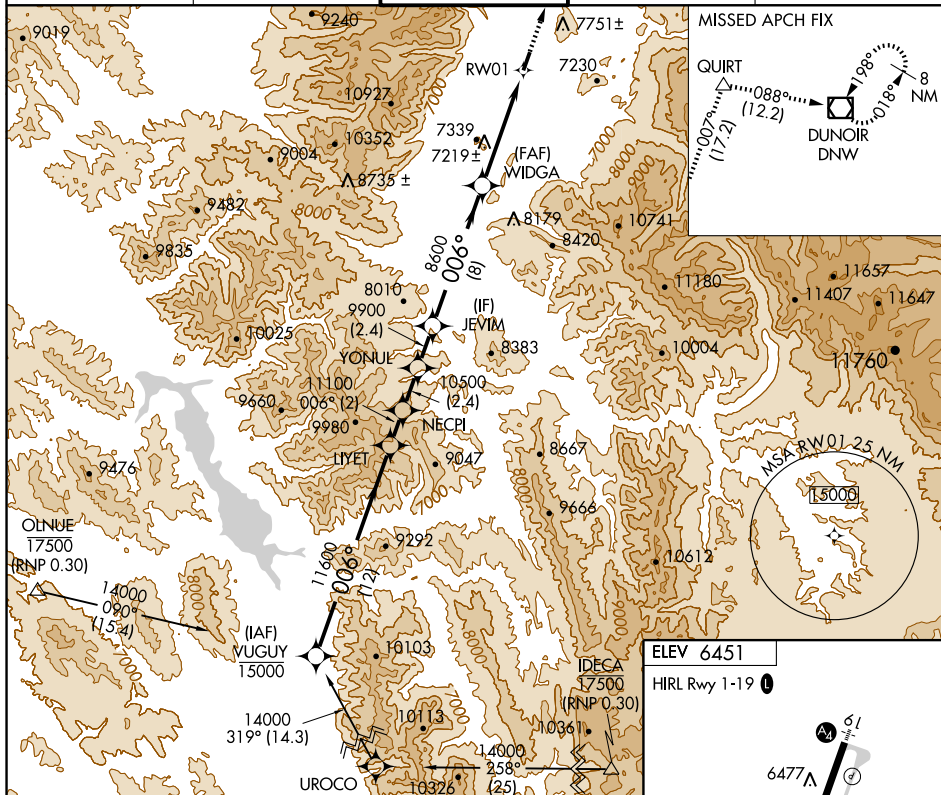
APP CRS	Rwy Idg	6300
006°	TDZE	6431
	Apt Elev	6451

RNAV (RNP) Y RWY 1

JACKSON HOLE (JAC)

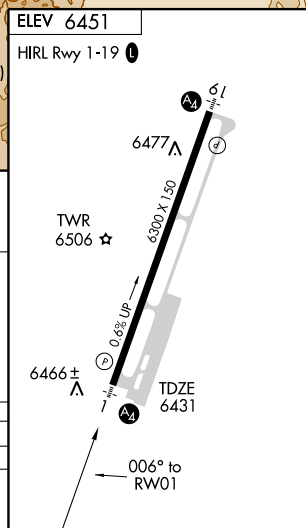
GPS required. For uncompensated Baro-VNAV systems, procedure NA below -28°C (-18°F) or above 36°C (97°F). Inoperative table does not apply. Visibility reduction by helicopters NA. When VGSI inoperative, procedure NA at night.	MALS 	MISSED APPROACH: Climb to 14000 via track 007° to QUIRT and via track 088° to DNW VOR/DME and hold, continue climb-in-hold to 14000.
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ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF)	GND CON 124.55	UNICOM 122.95
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VUGUY	LIYET	NECPI	YONUL	JEVIM	WIDGA	RW01
14000	11600	11100	10500	9900	8600	
Procedure Turn NA						
GP 3.00°						
TCH 50						
	12 NM	2 NM	2.4	2.4	8 NM	6.6
CATEGORY	A	B	C	D		
RNP 0.3 DA	7364-4	933 (1000-4)				

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED



APP CRS	Rwy Idg	6300
006°	TDZE	6431
	Apt Elev	6451

RNAV (RNP) Z RWY 1

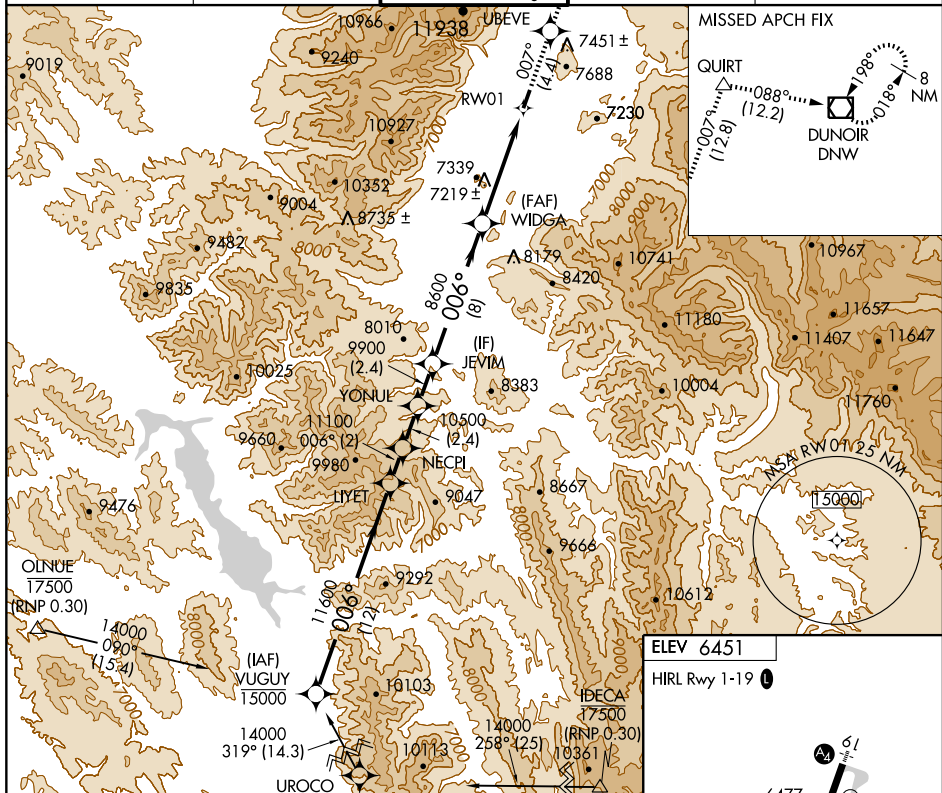
JACKSON HOLE (JAC)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -28°C (-18°F) or above 36°C (97°F). For inoperative MALS, increase RNP 0.30 visibility all cats to 1½. Visibility reduction by helicopters NA. When VGSI inoperative, procedure NA at night. Missed approach requires RNP less than 1.0 and minimum climb of 280 feet per NM to 8100; if unable, see RNAV (RNP) Y RWY 1.



MISSED APPROACH: Climb to 14000 via track 007° to UBEVE and via track 007° to QUIRT and via track 088° to DNW VOR/DME and hold, continue climb-in-hold to 14000.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF)	GND CON 124.55	UNICOM 122.95
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JACKSON HOLE (JAC)

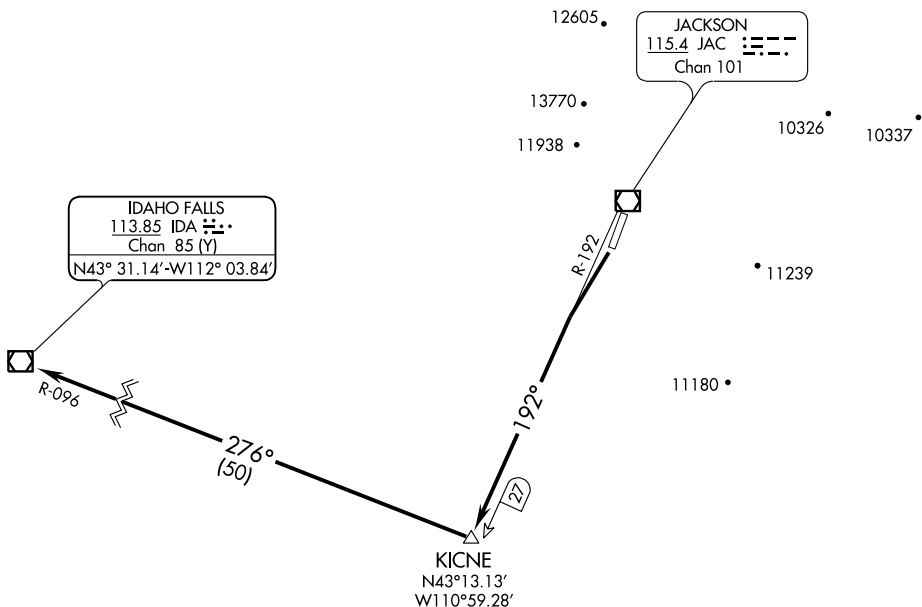
MISSED APPROACH: Climb to 14000 via track 187° to NECPI and via track 096° to VECUR and via left turn on track 348° to DNW VOR/DME and hold.

122.95

Diagram of the TWR 6506 structure. The structure is a long, narrow beam inclined at an angle of 187° to the horizontal. The beam is labeled with "6477" and "6466 ± 1". The beam is supported by a base (A4) and has a top support (A4) at an angle of 187° to the horizontal. The beam is labeled with "6300 x 150" and "0.6% UP". The structure is identified as "TWR 6506" and "TDZE 6451".

HIRL Rwy 1-19 **L**

SALT LAKE CENTER
133.25 285.6
CASPER RADIO
122.05
CTAF
118.075
UNICOM
122.95
AWOS-3 120.625



TAKE-OFF MINIMUMS:

Rwy 19: Standard with minimum climb of 335' per NM to 14000 or 4400-3 for climb in visual conditions.
Rwy 1: Not authorized - ATC.

NOTE: Rwy 19, Bush 485 feet from departure end of runway, 513 feet right of centerline, 6428' MSL.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 19: Climb to 14000 via JAC R-192 to KICNE INT/JAC 27 DME, then right turn via IDA R-096 to IDA VOR/DME; or for climb in visual conditions: cross JAC VOR/DME southbound at or above 10800, then climb to 14000 via JAC R-192 to KICNE INT/JAC 27 DME, then right turn via IDA R-096 to IDA VOR/DME.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF) 0	GND CON 124.55	UNICOM 122.95
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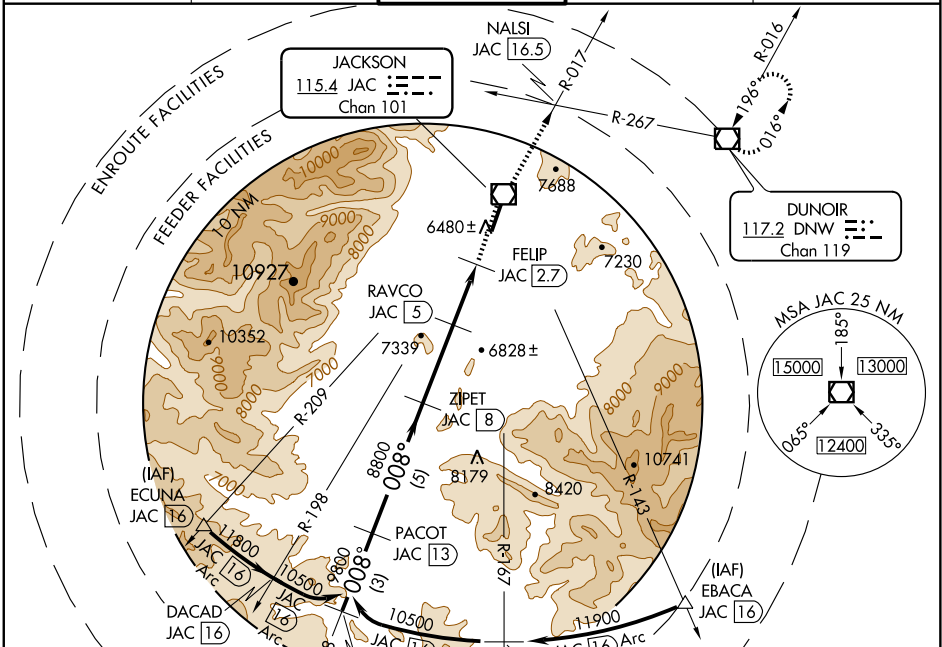


Figure 1 is an example of a 4-segment instrument approach chart. The chart shows a 4-segment approach with altitudes of 10500, 9800, 8800, and 7720. It includes various navigation aids like OODREE, PACOT, ZIPET, RAVCO, JAC, and FELIP. The chart also shows a 3D perspective view of the approach path, including the final approach segment (FAF) and the touchdown zone (TDZE).

VOR/DME JAC	APP CRS	Rwy Idg	6300
115.4	193°	TDZE	6451
Chan 101		Apt Elev	6451

⚠

Circling NA east of Rwy 1-19.

⚠

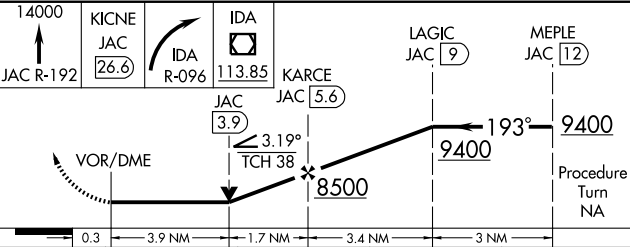
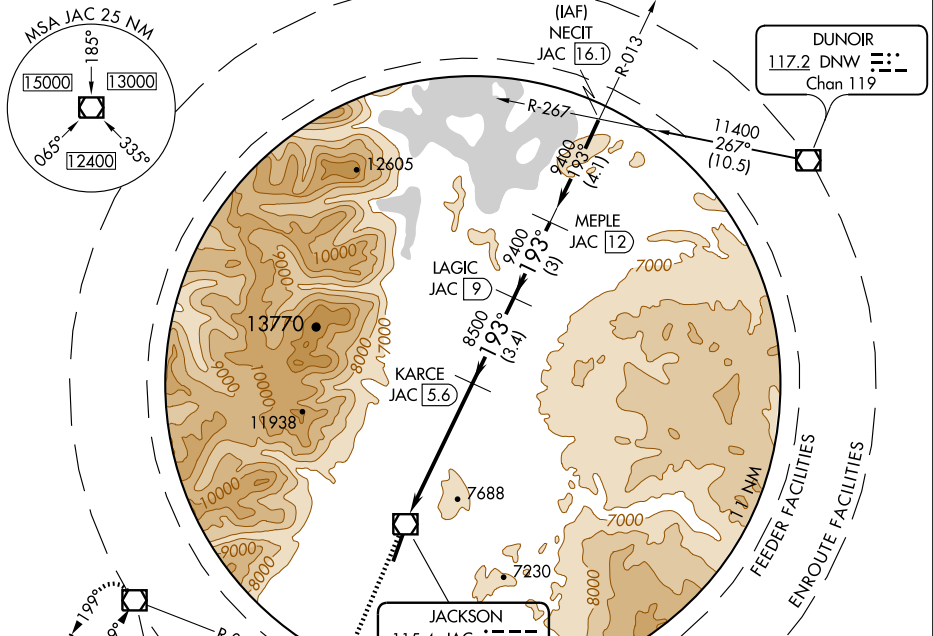
Inoperative table does not apply.

If local altimeter setting not received, procedure NA.

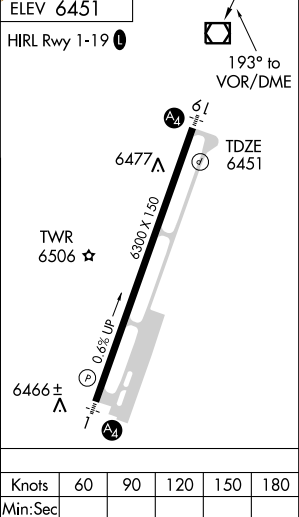
MALS

MISSED APPROACH: Climb to 14000 via JAC R-192 to KICNE INT/JAC 26.6 DME, and right turn via IDA R-096 to IDA VOR/DME and hold.

ATIS	SALT LAKE CENTER	JACKSON TOWER*	GND CON	UNICOM
120.625	133.25 285.6	118.075 (CTAF)	124.55	122.95



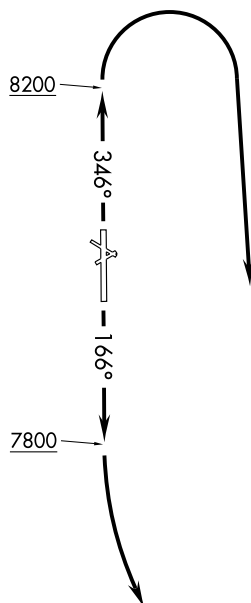
CATEGORY	A	B	C	D
S-19	7840-1¼ 1389 (1400-1¼)	7840-1½ 1389 (1400-1½)	7840-3	1389 (1400-3)
CIRCLING	7840-1¼ 1389 (1400-1¼)	7840-1½ 1389 (1400-1½)	7840-3	1389 (1400-3)



NW-1. 14 JAN 2010 to 11 FEB 2010

KEMRR TWO DEPARTURE (RNAV)

SALT LAKE CITY CENTER
124.35 353.5
SALT LAKE CITY DEP CON
124.3 322.3

TAKE-OFF MINIMUMS

Rwy 4, 10, 22, 28: NA - Rwy Surfaces.

Rwy 16, 34: Standard.

NOTE: 1. GPS Required.

2. RNAV 1.

NOTE: Chart not to scale.

FORT BRIDGER
FBR



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 7800 via heading 166° then climbing left turn to 12000 (or assigned altitude) . . .

TAKE-OFF RUNWAY 34: Climb to 8200 via heading 346° then climbing right turn to 12000 (or assigned altitude) . . .

. . . direct FBR VOR/DME then via assigned route/fix.

▼

NA

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

When local altimeter setting not received, use Evanston altimeter setting and increase all MDA 120 feet.

MISSED APPROACH: Climb to 9900 direct ILUME and hold.

AWOS-3 119.675	SALT LAKE CITY CENTER 124.35 353.5	UNICOM 122.8 (CTAF) 0
-------------------	---------------------------------------	--------------------------

ELEV 7285

166° to RW16

91

TDZE 7285

3250

328

2668 X 60

8208 X 75

34

REIL Rwy 16 and 34 0

MIRL Rwy 16-34 and 4-22 0

7 NM Holding Pattern

MIKAE

WOTOP

WAGEX 2.3 NM to RW16

RW16

9900

ILUME

11400

346°

166°

10100

3.74°

TCH 50

8240

6 NM

4.7 NM

2.3 NM

VGSI and descent angles not coincident.

CATEGORY	A	B	C	D
LNNAV MDA	7720-1	435 (500-1)	NA	
CIRCLING	7720-1	7740-1	NA	
	435 (500-1)	455 (500-1)		

NW-1. 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	8208
346°	TDZE	7276
	Apt Elev	7285

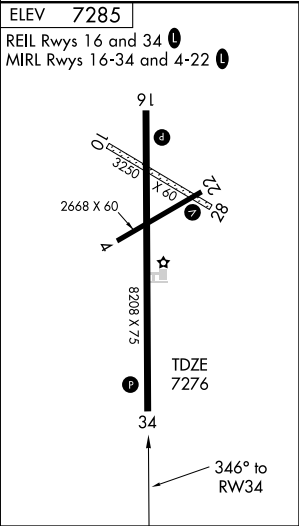
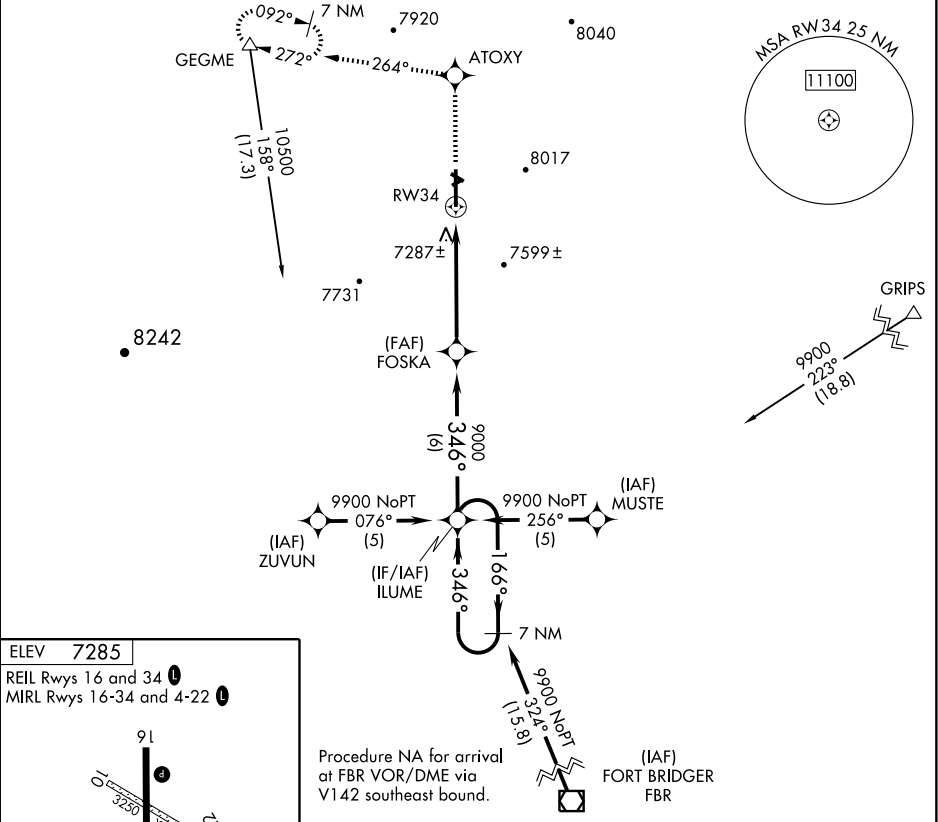
RNAV (GPS) RWY 34

KEMMERER MUNI (EMM)

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Evanston altimeter setting and increase all MDA 120 feet.

MISSED APPROACH: Climb to 12000 direct ATOXY and via track 264° to GEGME and hold, continue climb-in-hold to 12000. When authorized by ATC, climb-in-hold to 14000.

AWOS-3 119.675	SALT LAKE CITY CENTER 124.35 353.5	UNICOM 122.8 (CTAF)
-------------------	---------------------------------------	------------------------



12000	ATOXY	trk 264°	GEGME	ILUME	7 NM Holding Pattern
FOSKA					
RW34					
3.04° TCH 50					
9000					
346°					
166°					
9900					
VGSI and descent angles not coincident.					
5.2 NM					
6 NM					
CATEGORY	A	B	C	D	
LNNAV MDA	7540-1	264 (300-1)	NA	NA	
CIRCLING	7640-1	7740-1	NA	NA	
	355 (400-1)	455 (500-1)			

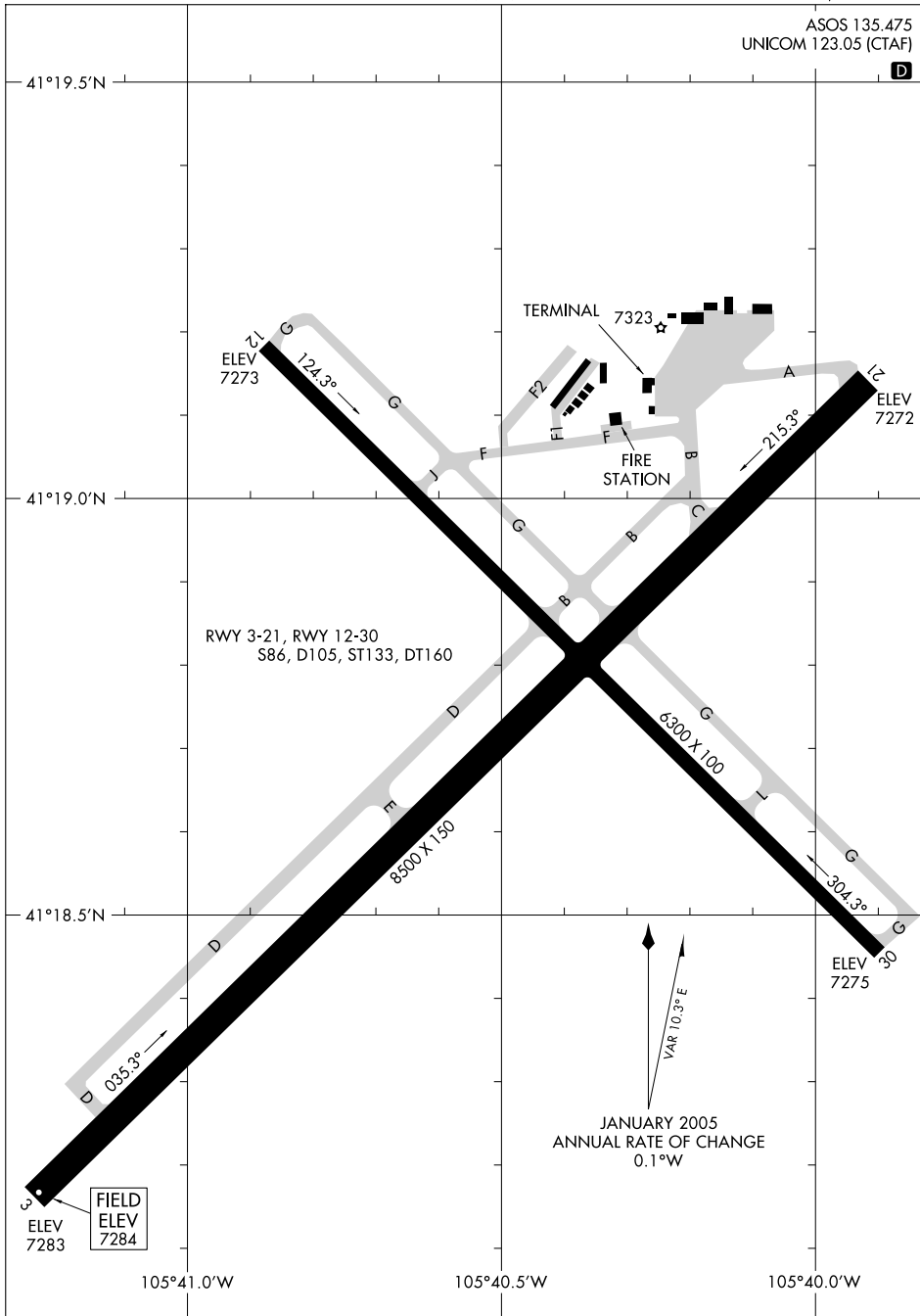
AIRPORT DIAGRAM

AL-225 (FAA)

LARAMIE RGNL (LAR)
LARAMIE, WYOMING

ASOS 135.475
UNICOM 123.05 (CTAF)

D



NW-1, 14 JAN 2010 to 11 FEB 2010

▼

DME/DME RNP -0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -29°C (-20°F) or above 34°C (93°F).

MISSED APPROACH: Climb to 10700 direct FEKEP and via 035° track to POVOH and hold.

ASOS 135,475	DENVER CENTER 125.9 284.7	UNICOM 123.05 (CTAF) 0
-----------------	------------------------------	---------------------------

7 NM Holding Pattern

GODKE

JIBIN

DUTCE

RWY 12

10700

FEKEP

035° track

POVOH

9800

301°

121°

121°

8800

8400

122°

GS 3.00° TCH 43

6.7 NM

2.7 NM

2.2 NM

1.2

*LNAV only

*1.2 NM to RWY 12

CATEGORY	A	B	C	D
LPV DA	7525-1 250 (300-1)			
LNAV/VNAV DA	7622-1¼ 347 (400-1¼)			
LNAV MDA	7700-1 425 (500-1)		7700-1¼ 425 (500-1¼)	
CIRCLING	7700-1¼ 416 (500-1¼)	7740-1¼ 456 (500-1¼)	7740-1½ 456 (500-1½)	7840-2 556 (600-2)

ELEV 7284

122° to RWY 12

TDZE 7275

6300 X 100

8500 X 150

7299

7323

30

50

REIL Rwy 3, 12 and 21 0

MIRL Rwy 3-21 and 12-30 0

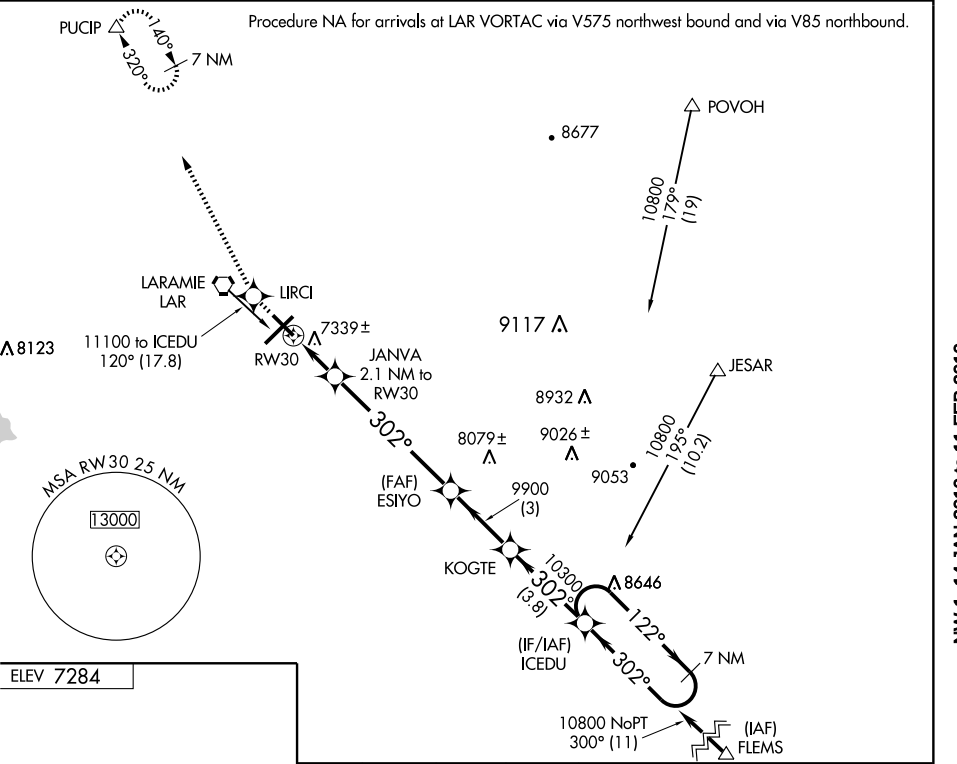
NW-1, 14 JAN 2010 to 11 FEB 2010

▼ Inoperative table does not apply.
DME/DME RNP -0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -29°C (-20°F) or above 35°C (95°F).

ODALS

MISSED APPROACH: Climb to 9400 direct LIRCI and via
320° track to PUCIP and hold.

ASOS 135.475	DENVER CENTER 125.9 284.7	UNICOM 123.05 (CTAF) 0
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9400	LIRCI	320° track	PUCIP	ICEDU	7 NM Holding Pattern
*LNAV only	JANVA 2.1 NM to RW30	ESIYO	KOGTE	ICEDU	122° 10800
*0.9 NM to RW30	RW30	7980	9900	10300	302° 302°
0.9	1.2 NM	5.8 NM	3 NM	3.8 NM	GS 3.00° TCH 41
CATEGORY	A	B	C	D	
LPV DA	7528-1 250 (300-1)				
LNAV/VNAV DA	7629-1¼ 351 (400-1¼)				
LNAV MDA	7600-1 322 (400-1)				
CIRCLING	7660-1¼ 376 (400-1¼)	7740-1¼ 456 (500-1¼)	7740-1½ 456 (500-1½)	7840-2 556 (600-2)	

NW-1. 14 JAN 2010 to 11 FEB 2010

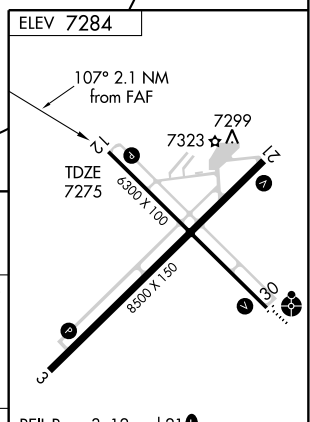
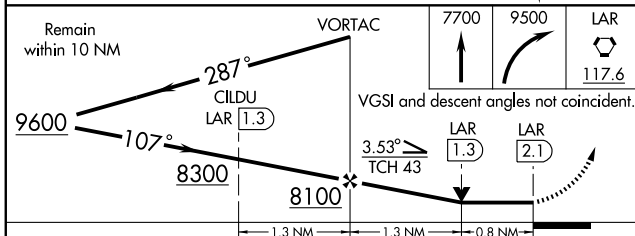
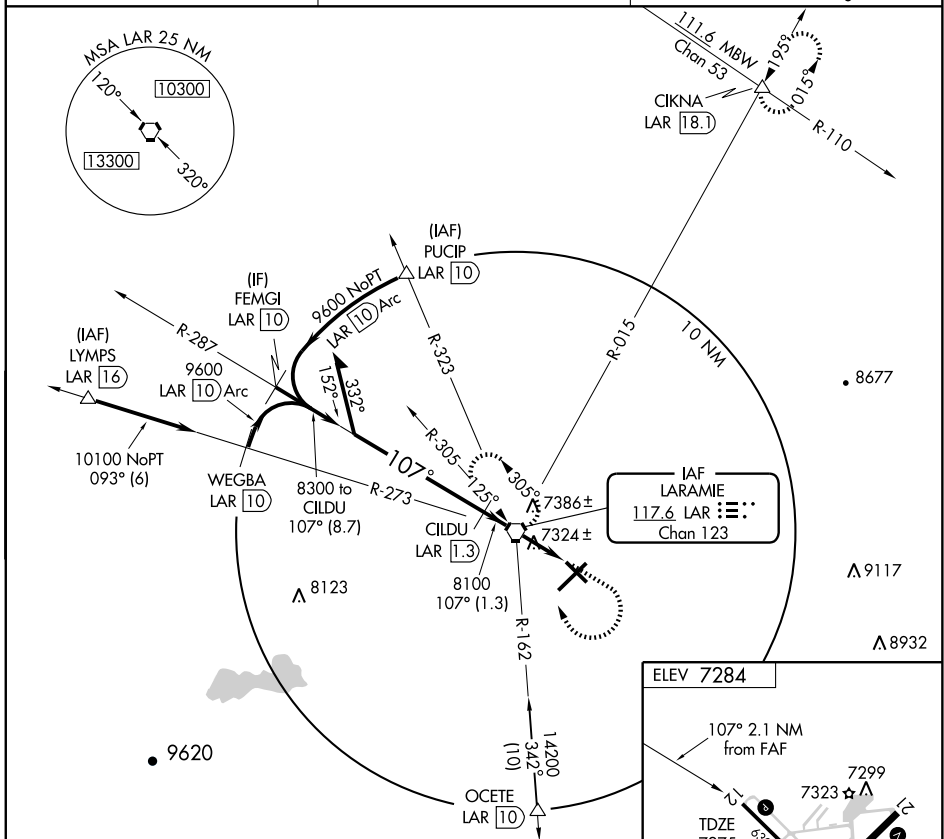
VORTAC LAR 117.6 Chan 123	APP CRS 107°	Rwy Idg TDZE Apt Elev 6300 7275 7284
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VOR/DME or TACAN RWY 12

LARAMIE RGNL (LAR)

	MISSED APPROACH: Climb to 7700 then climbing right turn to 9500 direct LAR VORTAC and hold, continue climb-in-hold to 9500 (TACAN aircraft continue climb to 10600 via LAR VORTAC R-015 to CIKNA/18.1 DME and hold north, left turn, 195° inbound).
--	---

ASOS 135.475	DENVER CENTER 125.9 284.7	UNICOM 123.05 (CTAF) 1
------------------------	-------------------------------------	---



CATEGORY	A	B	C	D	Knots	60	90	120	150	180
S-12	7580-1 305 (300-1)				Min:Sec					
CIRCLING	7660-1 376 (400-1)	7740-1 456 (500-1)	7740-1½ 456 (500-1½)	7840-2 556 (600-2)						

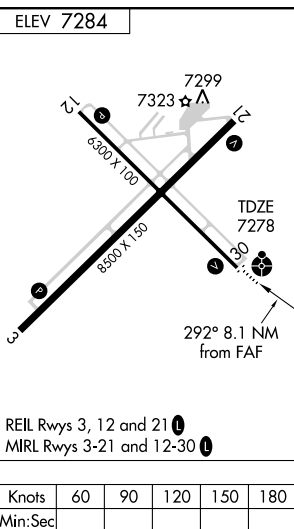
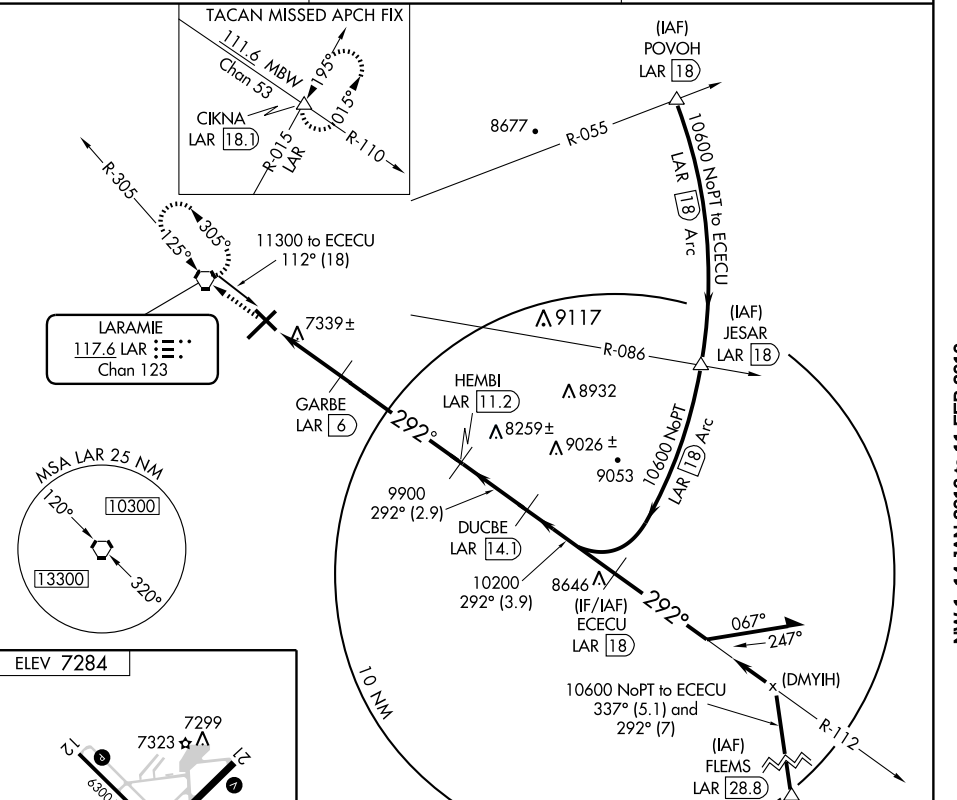
V

ODALS

MISSED APPROACH:

Climb to 9500 direct LAR VORTAC and hold, continue climb-in-hold to 9500 (TACAN aircraft continue climb to 10600 via LAR VORTAC R-015 to CIKNA INT/18.1 DME and hold north, left turns, 195° inbound.

ASOS 135.475	DENVER CENTER 125.9 284.7	UNICOM 123.05 (CTAF) 0
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9500	LAR	Remain within 10 NM			
117.6					
8220	8220	9900	10200	10600	
0.9	2 NM	5.2 NM	2.9 NM	3.9 NM	
CATEGORY	A	B	C	D	
S-30	7600- $\frac{3}{4}$ 322 (400- $\frac{3}{4}$)				7600-1 322 (400-1)
CIRCLING	7660-1 376 (400-1)	7740-1 456 (500-1)	7740-1 $\frac{1}{2}$ 456 (500-1 $\frac{1}{2}$)		7840-2 556 (600-2)

NW-1, 14 JAN 2010 to 11 FEB 2010

VOR	ECS	APP CRS	Rwy Idg	5300
108.2		323°	TDZE	4174
			Apt Elev	4174

VOR or GPS RWY 31

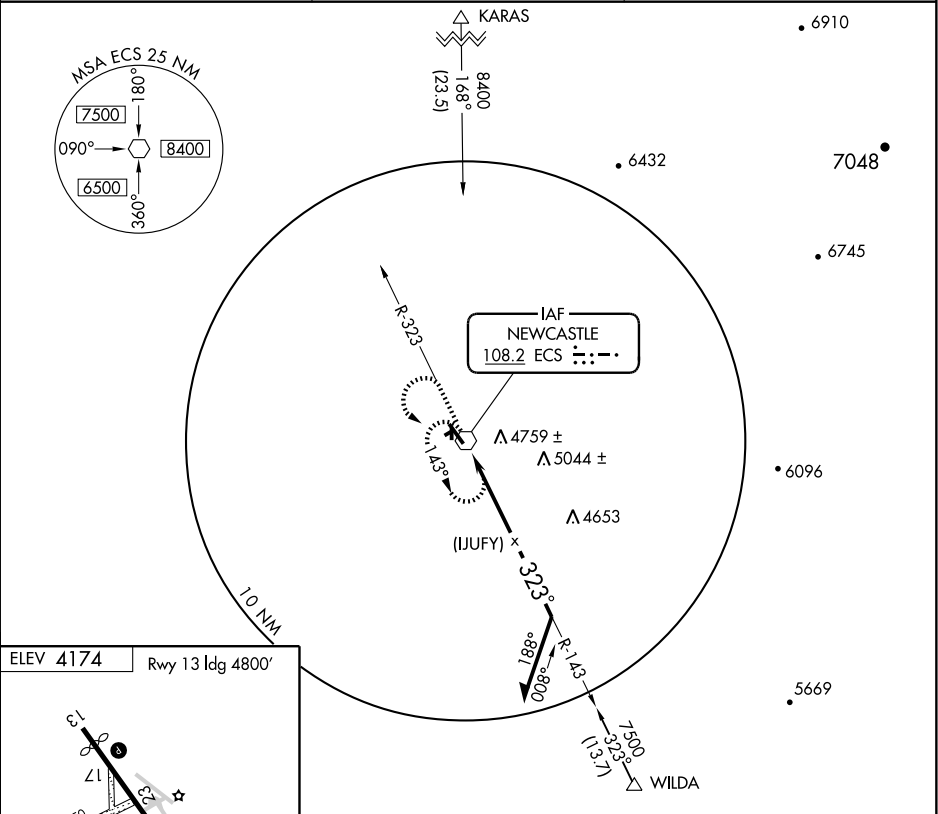
NEWCASTLE/MONDELL FIELD (ECS)

⚠ Circling east of Rwy 13-31 not authorized. Obtain local altimeter setting on CTAF when not received procedure not authorized.

⚠ **ODALS**

MISSED APPROACH: Climb to 5500 via ECS VOR R-323, then climbing left turn to 7500 direct ECS VOR and hold.

AWOS-3 118.0	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF) 0
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ELEV 4174 Rwy 13 Idg 4800'

REIL Rwy 13 0
MIRL Rwy 13-31 0

323° to VOR

TDZE 4174

2220 X 50
0.7 % UP

2666 X 40
0.8 % UP

5300 X 75

35

31

Knots	60	90	120	150	180
Min:Sec					

5500 ↑ ESC R-323		7500 ↶	ESC 108.2	VOR 143° (IJUFY) 323° 6500 4 NM		Remain within 10 NM
CATEGORY	A	B	C	D		
S-31	5060-1¼	886 (900-1¼)	5060-2¾ 886 (900-2¾)	5060-3 886 (900-3)		
CIRCLING	5060-1¼	886 (900-1¼)	5060-2¾ 886 (900-2¾)	5060-3 886 (900-3)		

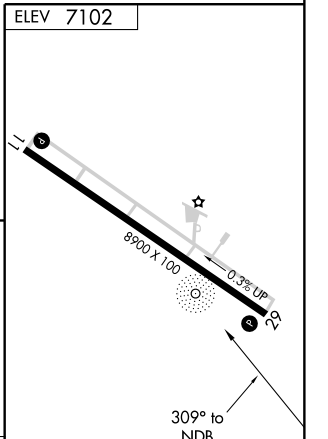
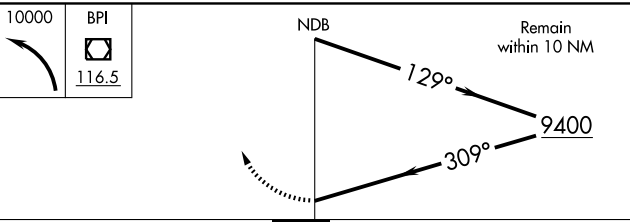
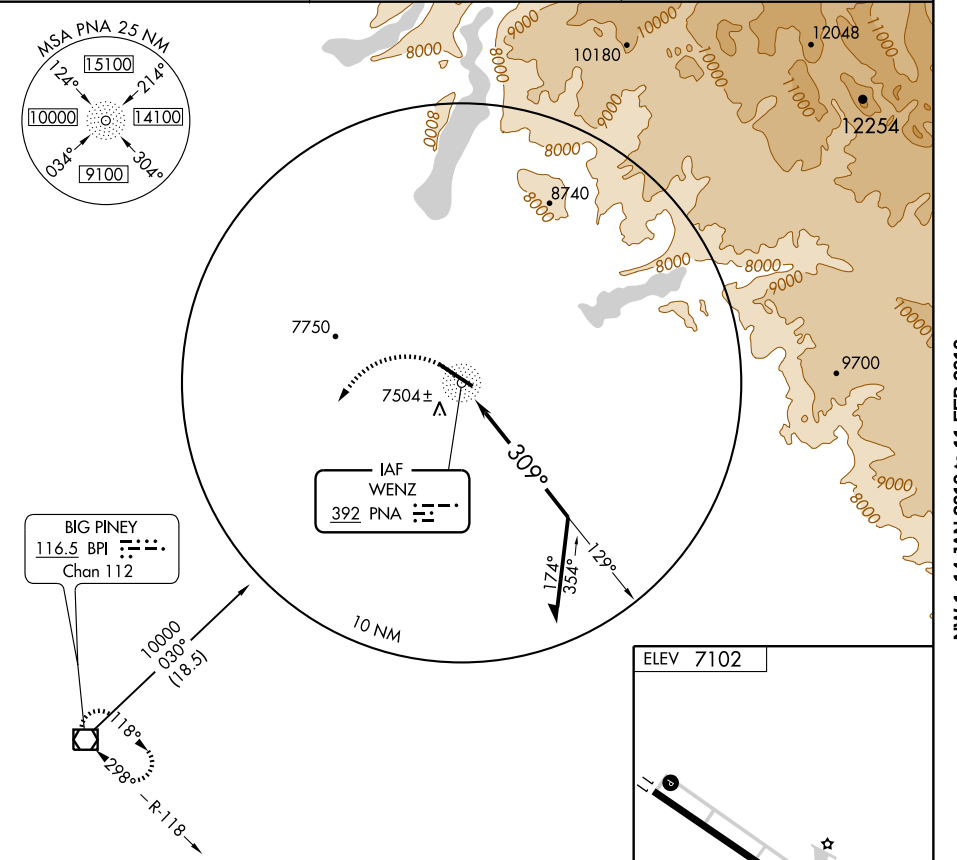
▼

▲

Procedure NA at night. When local altimeter setting not received, use MIRA Memorial Field altimeter setting and increase all MDA 60 feet and visibility Cat C/D ¼ mile.

MISSED APPROACH: Climbing left turn to 10000 direct BPI VOR/DME and hold.

AWOS-3 118.325	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	7900-1 798 (800-1)	7900-1¼ 798 (800-1¼)	7900-2¼ 798 (800-2¼)	7900-2½ 798 (800-2½)

REIL Rwy 11 and 29 0

MIRL Rwy 11-29 0

NW-1. 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	8900
119°	TDZE	7102
	Apt Elev	7102

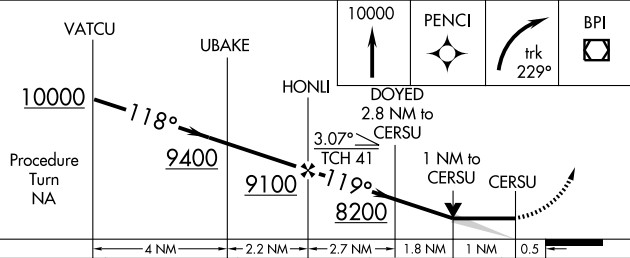
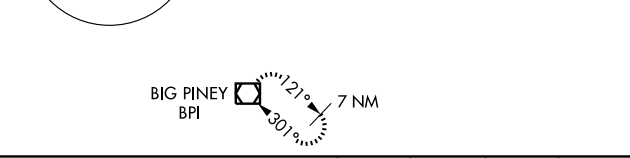
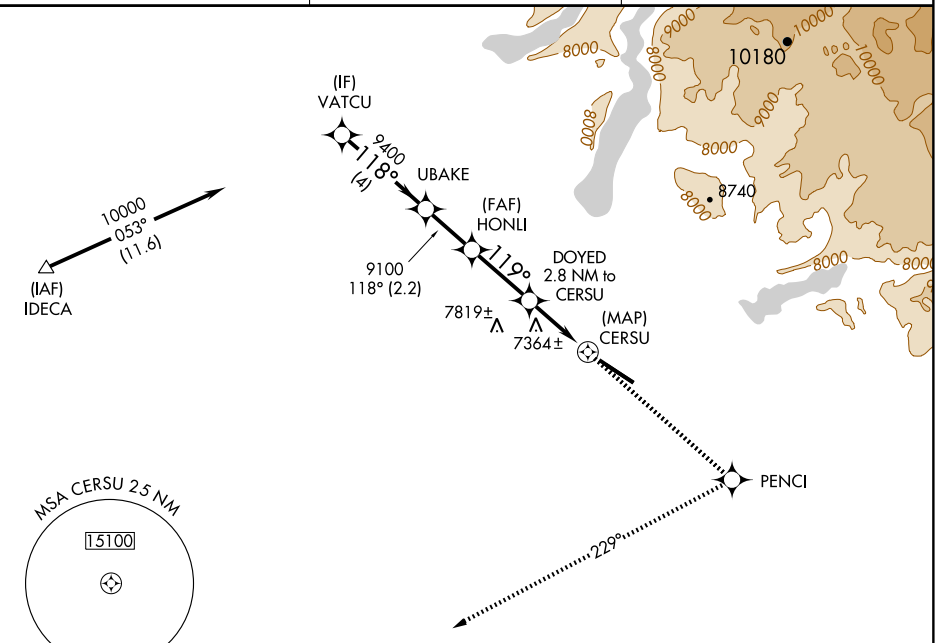
RNAV (GPS) RWY 11

PINEDALE/ RALPH WENZ FIELD (PNA)

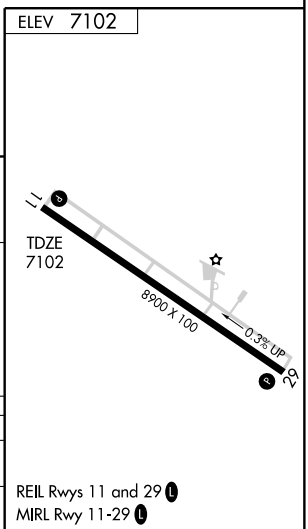
⚠ Circling NA at night. DME/DME RNP- 0.3 NA. VDP NA when using Miley Memorial Field altimeter setting. When local altimeter setting not received, use Miley Memorial Field altimeter setting and increase all MDA 60 feet and circling Cats B/C/D visibility ¼ mile.

MISSED APPROACH: Climb to 10000 direct PENCE and right turn via track 229° to BPI VOR/DME and hold.

AWOS-3 118.325	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 1
-------------------	-----------------------------------	---------------------------------



CATEGORY	A	B	C	D
LNAV MDA	7620-1 518 (600-1)	7620-1½ 518 (600-1½)	7620-1¾ 518 (600-1¾)	7620-2 518 (600-2)
CIRCLING	7760-1 658 (700-1)	7820-1 718 (800-1)	7840-2 738 (800-2)	7860-2½ 758 (800-2½)



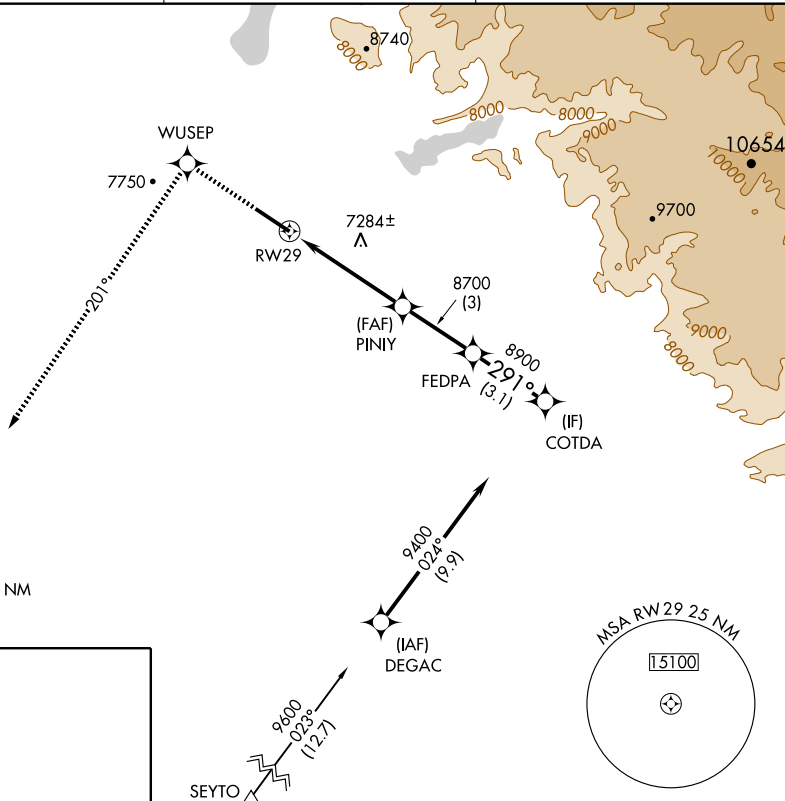
NW-1. 14 JAN 2010 to 11 FEB 2010

RNAV (GPS) RWY 29

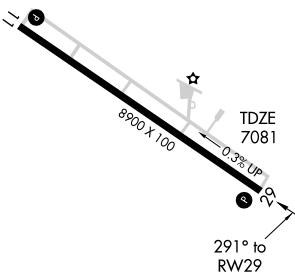
PINEDALE/ RALPH WENZ FIELD (PNA)

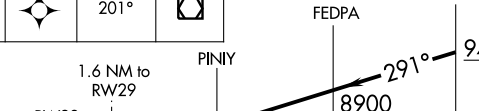
- MISSED APPROACH:** Climb to 10000
direct WUSEP and via track 201° to
BPI VOR/DME and hold.

UNICOM
122.8 (CTAF) **L**



ELEV 7102



10000 ↑	WUSEP 	trk 201°	BPI 	VGS1 and descent angles not coincident.			
							
CATEGORY	A		B		C		D
LNAV MDA	7600-1 519 (500-1)				7600-1½ 519 (500-1½)		7600-1¾ 519 (500-1¾)
CIRCLING	7760-1 658 (700-1)	7820-1 718 (800-1)			7840-2 738 (800-2)	7860-2½ 758 (800-2½)	

NW-1. 14 JAN 2010 to 11 FEB 2010

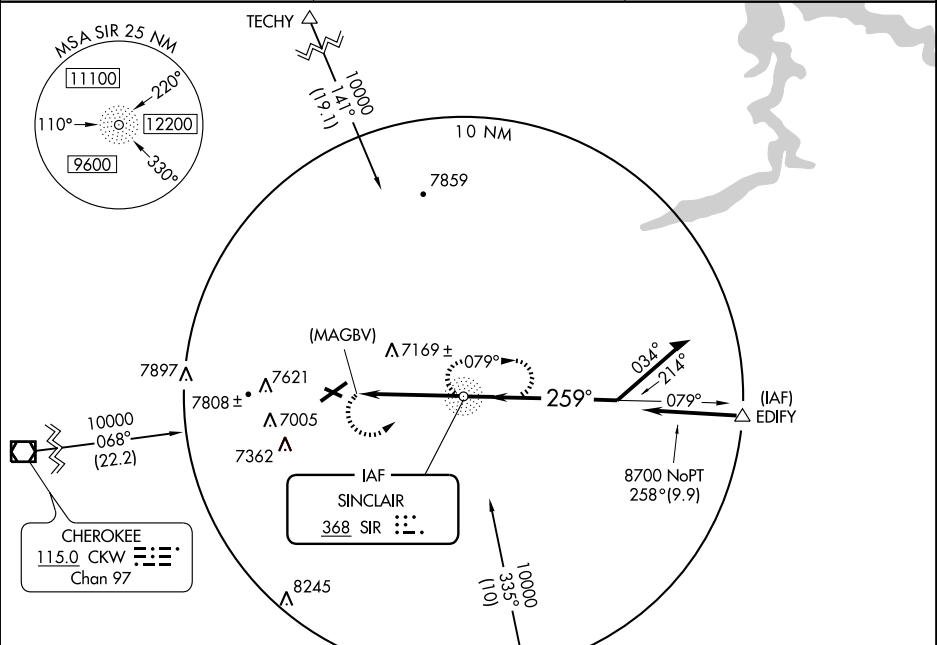
REIL Rwy 11 and 29 **L**MIRL Rwy 11-29 **L**

NDB SIR 368	APP CRS 259°	Rwy Idg TDZE Apt Elev	N/A N/A 6813
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NDB or GPS-A
RAWLINS MUNI/HARVEY FIELD (RWL)

 	Circling not authorized NW of Rwy 4-22.	MISSED APPROACH: Climbing left turn to 9000 direct SIR NDB and hold.
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ASOS 118.525	DENVER CENTER 132.1 254.35	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	7480-1 667 (700-1)		7480-1 ¾ 667 (700-1 ¾)	7720-3 907 (1000-3)

ELEV 6813

REIL Rwys 22 and 28 0
MIRL Rwy 4-22 and 10-28 0

FAF to MAP 4 NM

Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

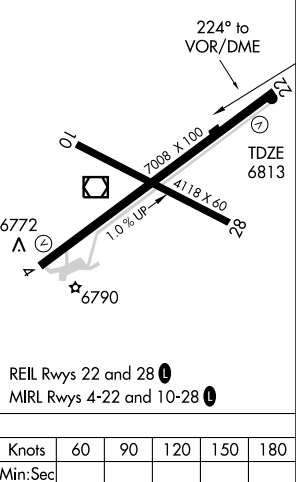
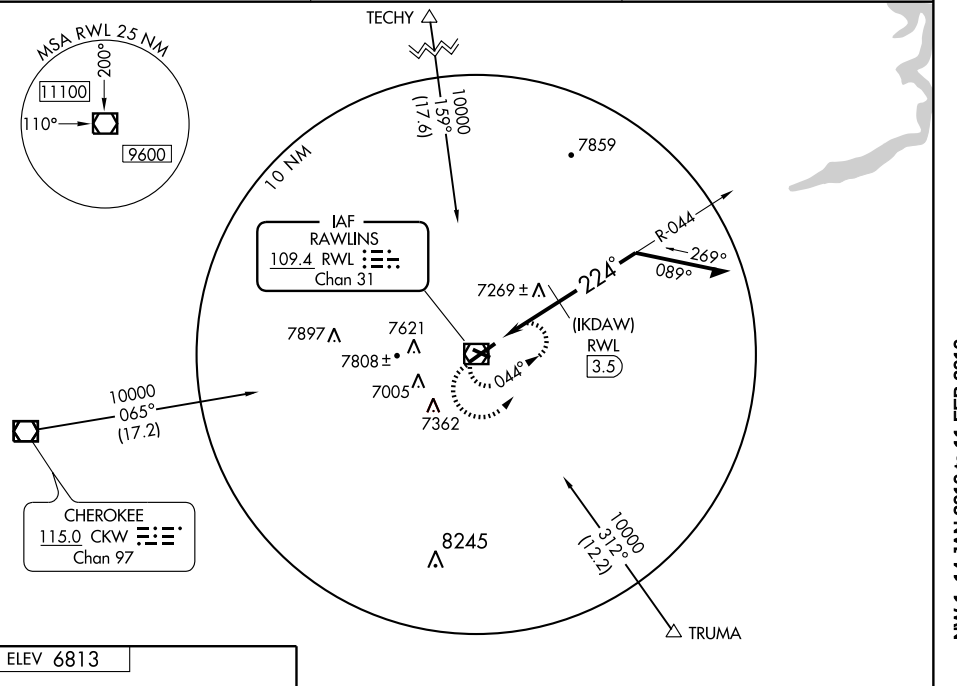
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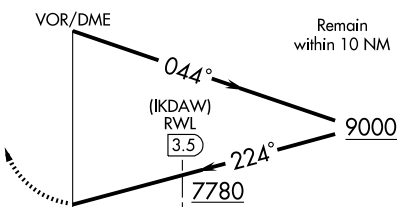
▲

Circling not authorized northwest of Runway 4-22.

MISSED APPROACH: Climbing left turn to 9300 via RWL R-044 within 10 NM, then direct RWL VOR/DME and hold.

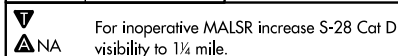
ASOS 118.525	DENVER CENTER 132.1 254.35	UNICOM 123.0 (CTAF) 0
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9300  RWL R-044		RWL  109.4			
CATEGORY					
A		B		C	
S-22		7780-1¼ 967 (1000-1¼)		7780-3 967 (1000-3)	
CIRCLING		7780-1¼ 967 (1000-1¼)		7780-3 967 (1000-3)	
DME MINIMA					
S-22		7520-1 707 (800-1)		7520-2 707 (800-2)	
CIRCLING		7520-1 707 (800-1)		7520-2 707 (800-2)	
				7720-3 907 (1000-3)	
				7720-3 907 (1000-3)	

APP CRS	Rwy Idg	8203
280°	TDZE	5456
	Apt Elev	5525

GPS RWY 28
RIVERTON RGNL (RIW)

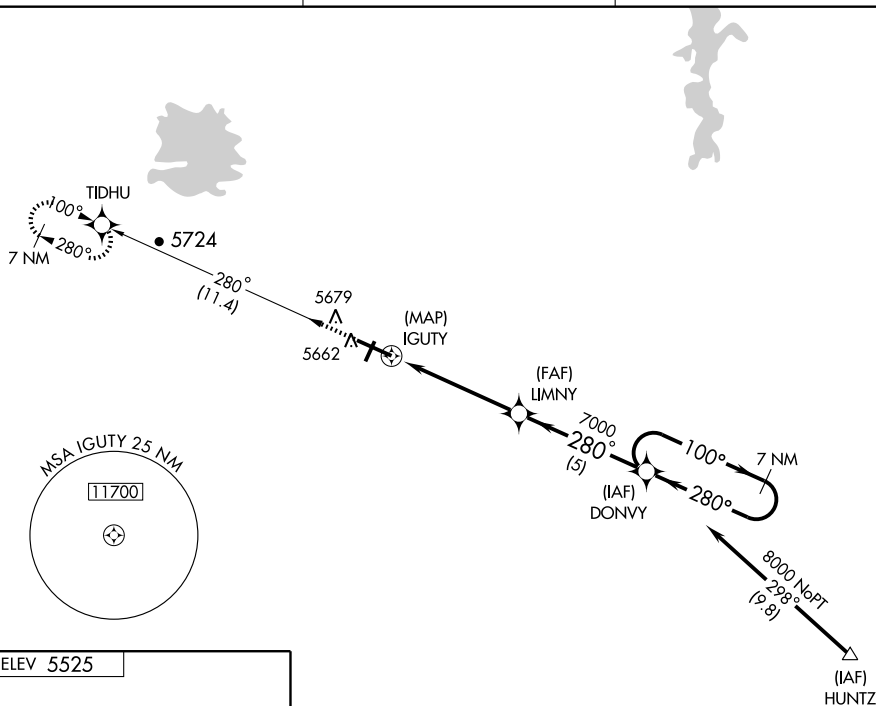


MISSED APPROACH: Climb to 9000 via 280° course to TIDHU WP and hold.

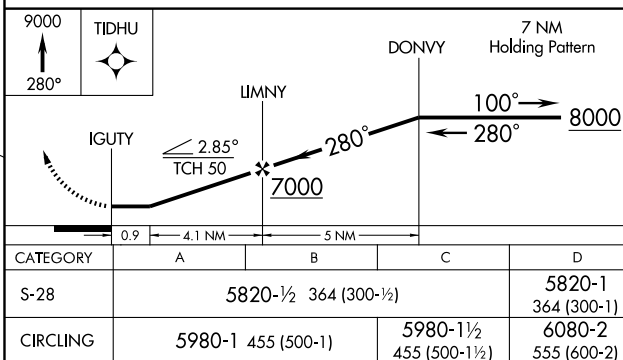
ASOS
121,425

CASPER RADIO
122.2

UNICOM
122.8 (CTAF) **L**



ELEV 5525



REIL Rwy 1, 10 and 19 **L**
MIRL Rwy 1-19 **L**
HIRL Rwy 10-28 **L**

LOC I-RIW <u>110.5</u>	APP CRS 280°	Rwy Idg TDZE Apt Elev	8203 5456 5525
----------------------------------	------------------------	-----------------------------	---

ILS or LOC RWY 28

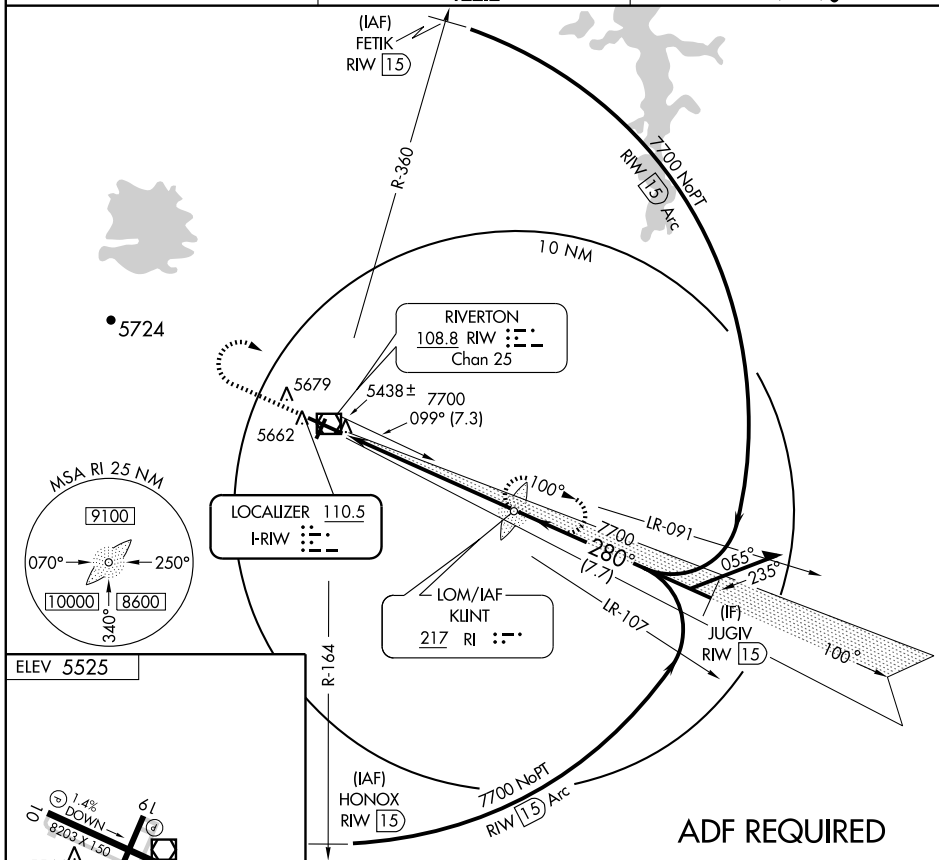
	For inoperative MALS/R, increase Cat D S-LOC visibility to 1 mile.
 NA	When local altimeter setting not received, use Lander altimeter setting and increase all DAs/MDAs 80 feet. When using Lander altimeter setting, for inoperative MALS/R, increase S-LS 28 all Cat D visibility to 1 mile.

MALS R



MISSED APPROACH: Climb to 5920 then climbing right turn to 7700 direct RJ LOM and hold.

ASOS 121.425	CASPER RADIO 122.2	UNICOM 122.8 (CTAF) 0
------------------------	------------------------------	--



ADF REQUIRED

REIL Rwy 1, 10 and 19 **L**MIRL Rwy 1-19 **L**H|RL Rwy 10-28 **L**

FAF to MAP 6.7 NM

Knots	60	90	120	150	180
Min:Sec	6:42	4:28	3:21	2:41	2:14

Diagram illustrating a non-precision approach chart for a runway with a 3.00° TCH. The chart shows the approach path, the runway, and the associated data.

Diagram Labels:

- 5920 (Elevation)
- 7700 (Elevation)
- RI (Runway Identifier)
- 217 (Runway Number)
- LOM (Localizer Outer Marker)
- 7672 (Elevation)
- 100° (Heading)
- 280° (Heading)
- 7700 (Elevation)
- GS 3.00° (Glide Slope)
- TCH 52 (Threshold Crossing Height)
- 6.7 NM (Distance)
- Remain within 10 NM (Instruction)

Table 1: Approach Data

CATEGORY	A	B	C	D
S-ILS 28	5656-½ 200 (200-½)			
S-LOC 28	5760-½ 304 (300-½)			5760-¾ 304 (300-¾)
CIRCLING	5980-1 455 (500-1)		5980-1½ 455 (500-1½)	6080-2 555 (600-2)

WAAS CH 42899 W10A	APP CRS 100°	Rwy Idg 8203 TDZE 5525 Apt Elev 5525
--	------------------------	---

RNAV (GPS) RWY 10

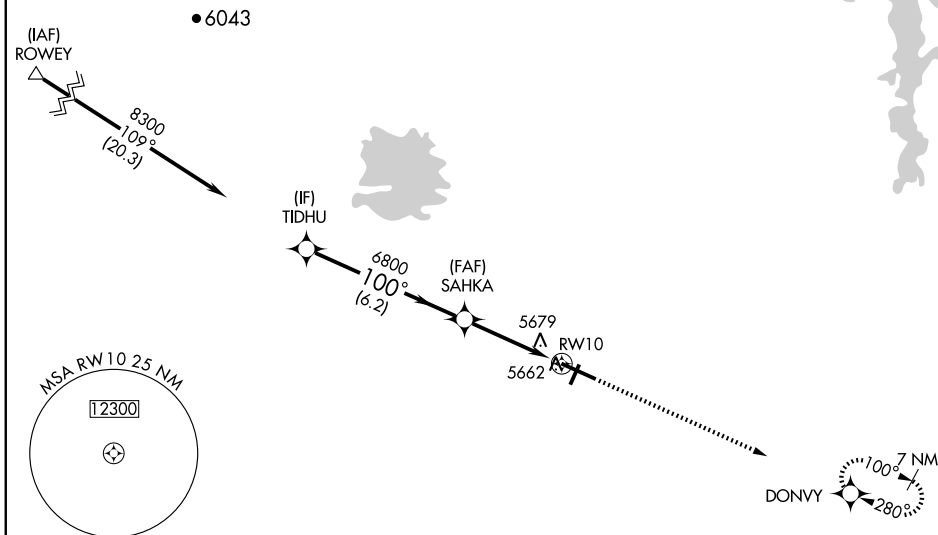
RIVERTON RGNL (RIW)

T Baro-VNAV NA below -26°C (-14°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 9000 direct DONVY and hold, continue climb-in-hold to 9000.

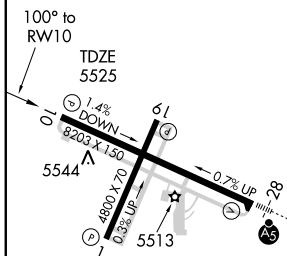
ASOS 121.425	CASPER RADIO 122.2	UNICOM 122.8 (CTAF) 0
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Procedure NA for arrival at ROWEY via V330 westbound.



NW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 5525



REIL Rwy 1, 10 and 19 **L**
MIRL Rwy 1-19 **L**
HIRL Rwy 10-28 **L**

Procedure Turn NA

TIDHU

VGS1 and RNAV glidepath not coincident.

SAHKA

8300

100°

6800

6.2 NM

2.6 NM

1.2 NM

*1.2 NM to RW10

RW10

* LNAV only

GS 3.00°
TCH 50

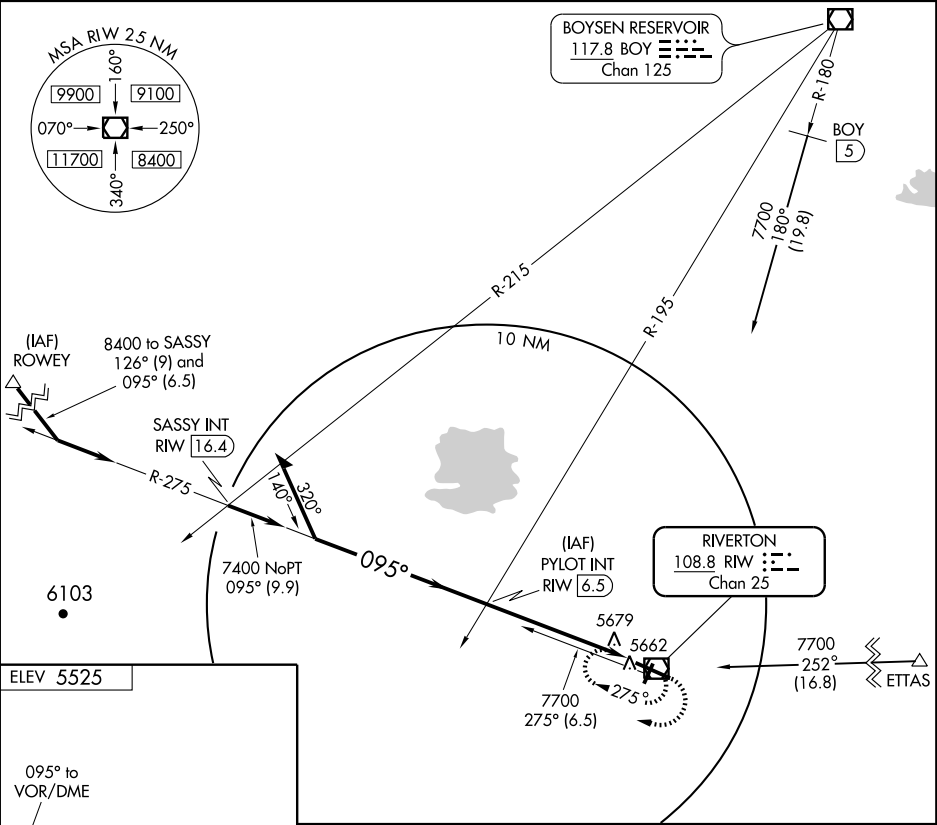
CATEGORY	A	B	C	D
LPV DA	5882-1¼		357 (400-1¼)	
LNAV/VNAV DA	5974-1½		449 (500-1½)	
LNAV MDA	5940-1 415 (500-1)		5940-1¼ 415 (500-1¼)	
CIRCLING	5980-1½ 455 (500-1½)		6080-2 555 (600-2)	

VOR/DME RIW 108.8 Chan 25	APP CRS 095°	Rwy Idg TDZE Apt Elev	8203 5525 5525
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VOR RWY 10
RIVERTON RGNL (RIW)

		MISSED APPROACH: Climb to 7700 in RIW VOR/DME holding pattern.
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ASOS 121.425	CASPER RADIO 122.2	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-10	5940-1	415 (500-1)	5940-1 1/4	415 (500-1 1/4)
CIRCLING	5980-1	455 (500-1)	5980-1 1/2	6080-2 455 (500-1 1/2) 555 (600-2)

VOR RWY 28
RIVERTON RGNL (RIW)

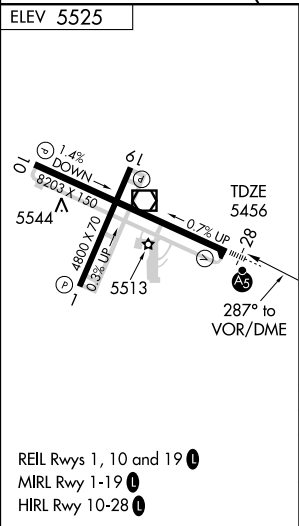
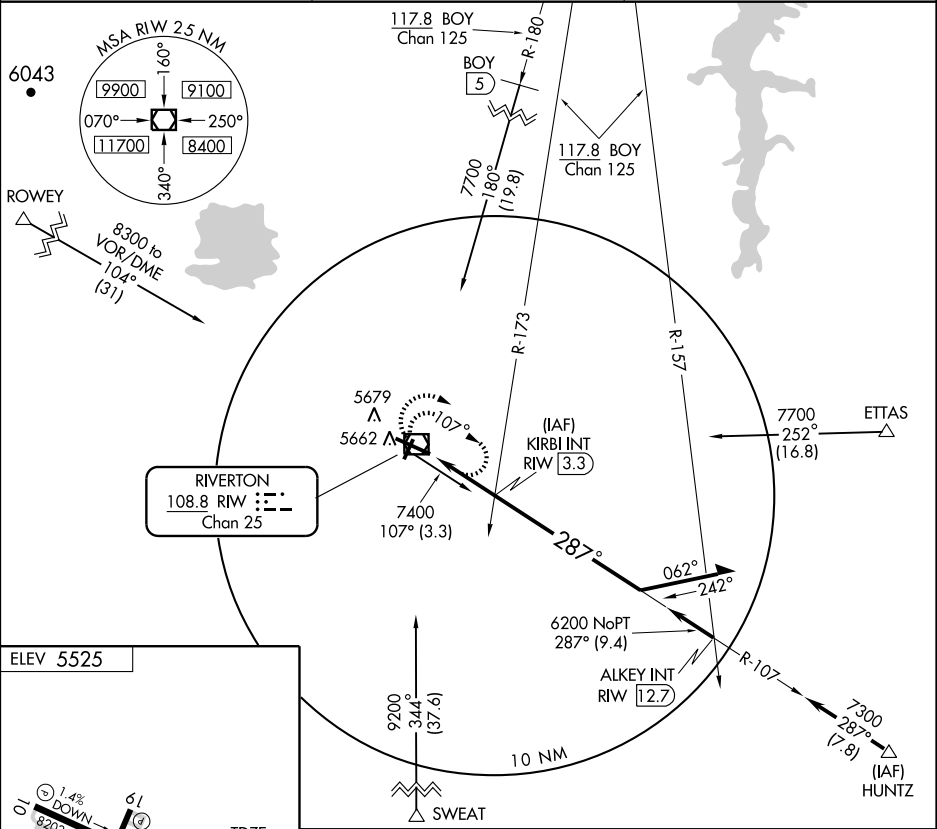
VOR/DME RIW 108.8 Chan 25	APP CRS 287°	Rwy Idg TDZE Apt Elev	8203 5456 5525
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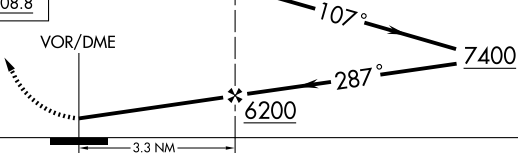
Inoperative table does not apply to Cat. D.



MISSED APPROACH: Climb to 7700 in RIW VOR/DME holding pattern.

ASOS 121.425	CASPER RADIO 122.2	UNICOM 122.8 (CTAF)
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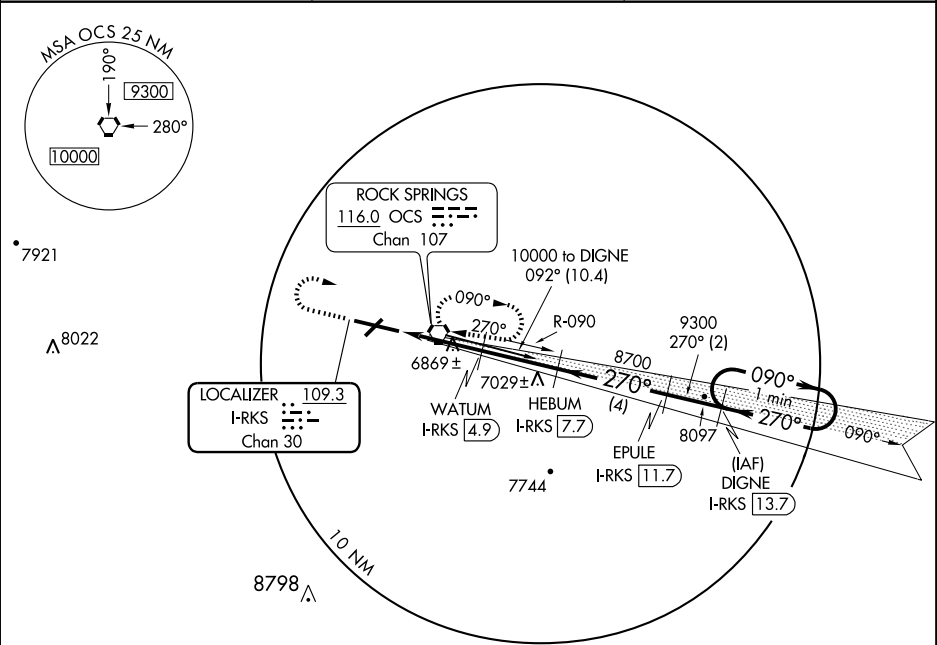
7700 ↑	RIW  108.8	KIRBI INT RIW 3.3	Remain within 10 NM	
				
CATEGORY	A	B	C	D
S-28	5780-1/2 324 (300-1/2)			5780-1 324 (300-1)
CIRCLING	5980-1 455 (500-1)		5980-1 1/2 455 (500-1 1/2)	6080-2 555 (600-2)

LOC/DME I-RKS 109.3 Chan 30	APP CRS 270°	Rwy Idg 10000 TDZE 6760 Apt Elev 6760
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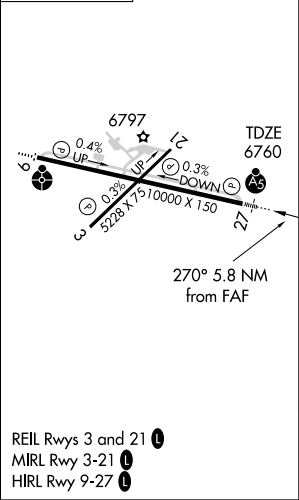
ILS or LOC/DME RWY 27
ROCK SPRINGS-SWEETWATER COUNTY (RKS)

	MISSED APPROACH: Climb to 7400, then climbing right turn to 9300 direct OCS VORTAC and hold.
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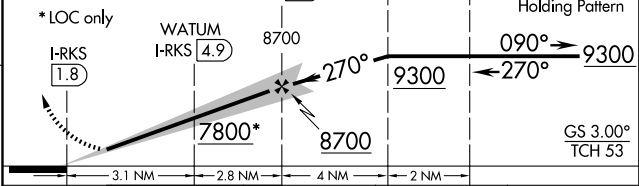
ASOS 118.375	CASPER RADIO 122.6	UNICOM 122.8 (CTAF) 0
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ELEV 6760



DME REQUIRED

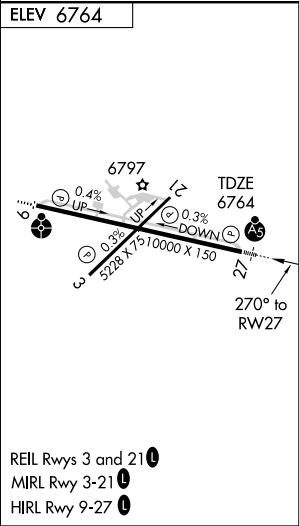
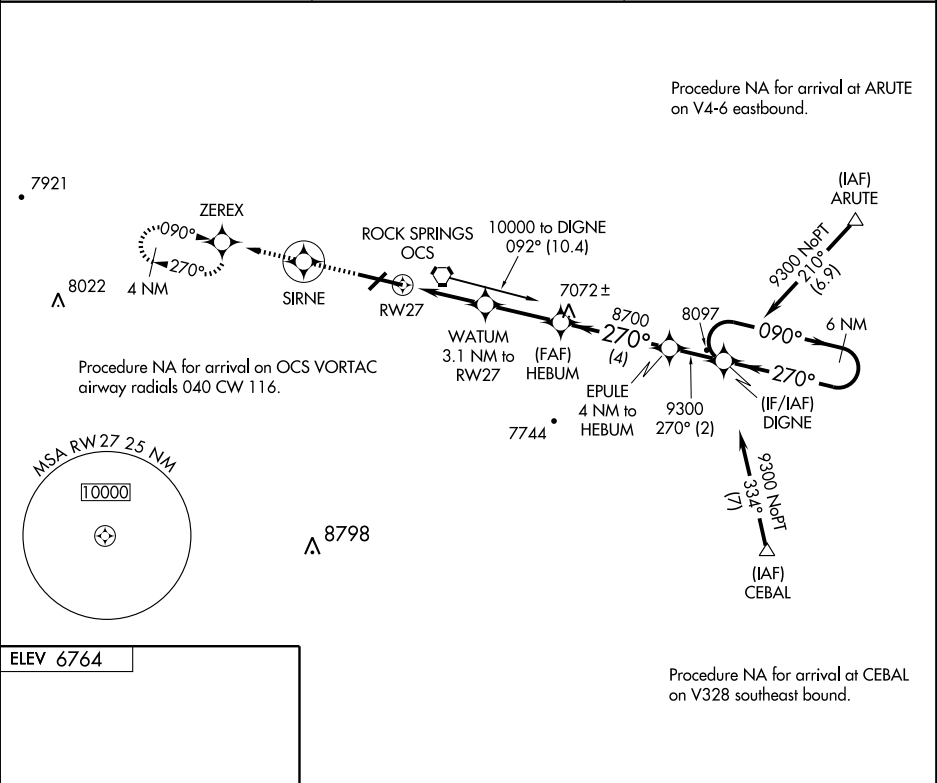
7400 ↑	9300 ↗	OCS 116.0 				
CATEGORY			A	B	C	D
S-ILS-27			6960-½ 200 (200-½)			
S-LOC 27			7120-½ 360 (400-½)		7120-¾ 360 (400-¾)	7220-¾ 360 (400-¾)
CIRCLING			7120-1 360 (400-1)	7220-1 460 (500-1)	7220-1½ 460 (500-1½)	7320-2 560 (600-2)

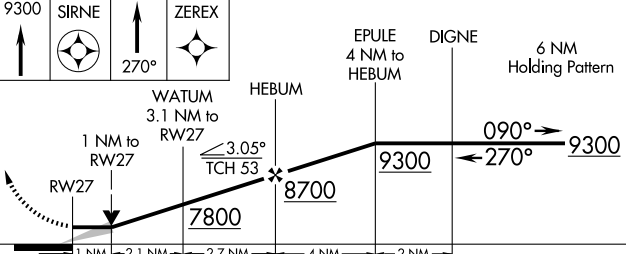
APP CRS	Rwy Idg	10000
270°	TDZE	6764
	Apt Elev	6764

RNAV (GPS) Y RWY 27
ROCK SPRINGS-SWEETWATER COUNTY (RKS)

T DME/DME RNP-0.3 NA. For inoperative MALS, increase Cat D visibility to 1 1/4 mile.	MALS 	MISSED APPROACH: Climb to 9300 direct SIRNE WP and via 270° track to ZEREX WP and hold.
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ASOS 118.375	CASPER RADIO 122.6	UNICOM 122.8 (CTAF)
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9300 	SIRNE 	 270°	ZEREX 						
CATEGORY		A		B		C		D	
LNAV MDA		7120-½ 356 (400-½)						7120-1 356 (400-1)	
CIRCLING		7120-1 356 (400-1)		7220-1 456 (500-1)		7220-1¼ 456 (500-1¼)		7320-1¾ 556 (600-1¾)	

VORTAC OCS 116.0 Chan 107	APP CRS 260°	Rwy Idg TDZE Apt Elev	N/A N/A 6760
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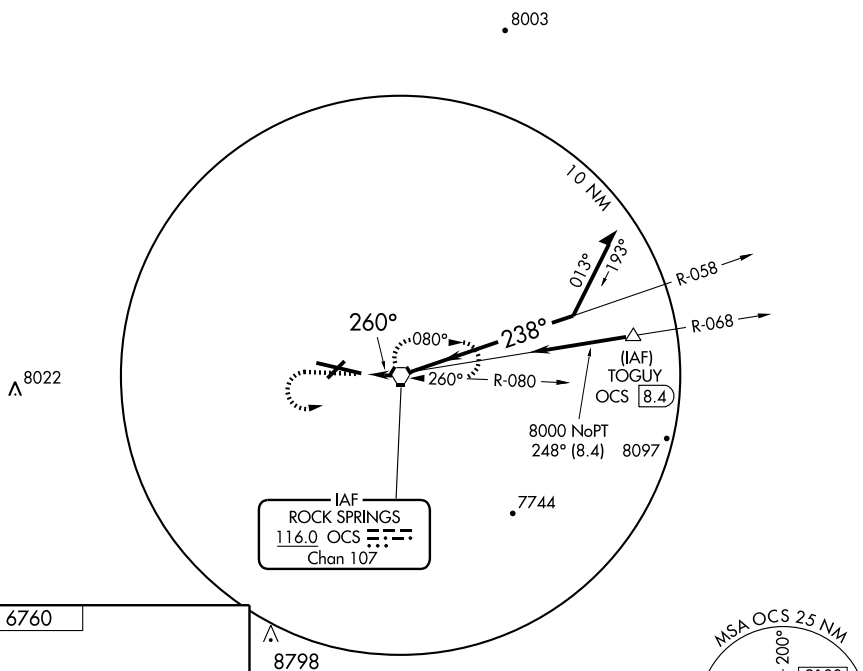
VOR-B
ROCK SPRINGS-SWEETWATER COUNTY (RKS)



MISSED APPROACH: Climb to 7700, then climbing left turn to 9100 direct OCS VORTAC and hold.

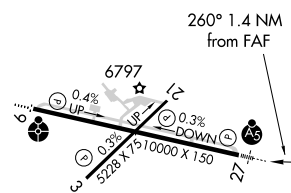
ASOS
118,375

CASPER RADIO
122.6

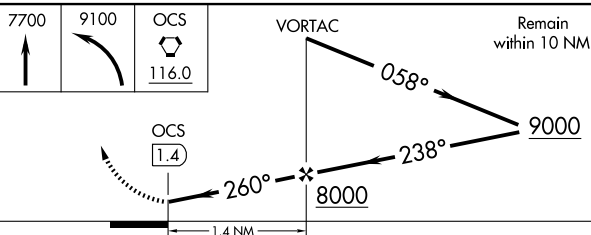
UNICOM
122.8 (CTAF) **L**

NW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 6760



REIL Rwy 3 and 21 **L**
MIRL Rwy 3-21 **L**
LIRL Rwy 3 and 21 **L**



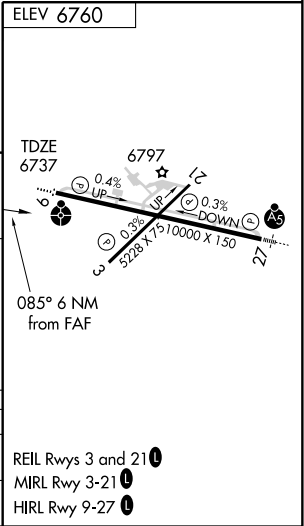
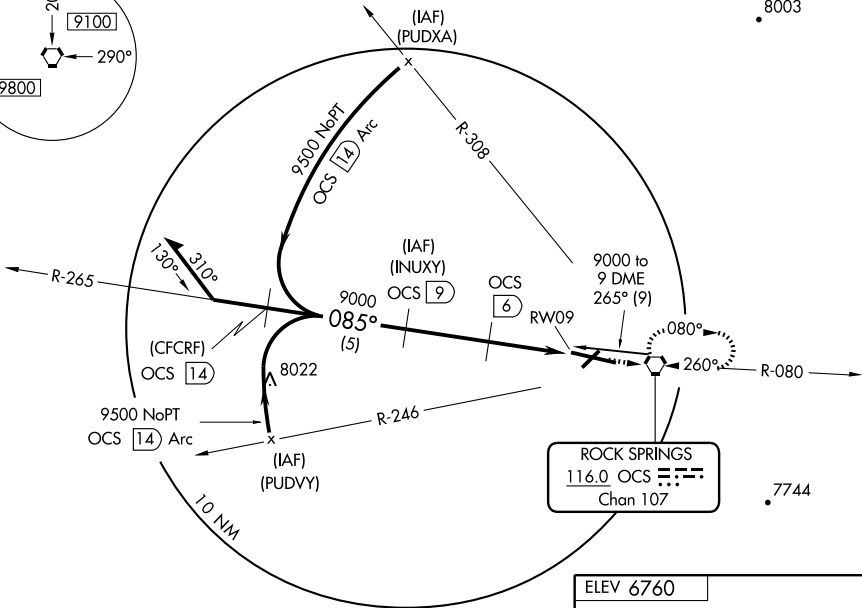
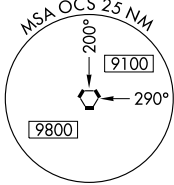
FAF to MAP 1.4 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	7440-1	680 (700-1)	7440-2 680 (700-2)	7440-2¼ 680 (700-2¼)
Min:Sec	1:24	0:56	0:42	0:34	0:28					

VORTAC OCS	APP CRS	Rwy Idg	10000
116.0	085°	TDZE	6737
Chan 107		Apt Elev	6760

VOR/DME or GPS RWY 9
ROCK SPRINGS-SWEETWATER COUNTY (RKS)

	ODALS 	MISSED APPROACH: Climb to 9100 direct OCS VORTAC and hold.
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ASOS 118.375	CASPER RADIO 122.6	UNICOM 122.8 (CTAF) 0
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Remain within 10 NM		(INUXY) OCS 9	9100 ↑ OCS 116.0	
9000	265°	9000	085°	
		OCS 6	RW09 OCS 3	
		3.57° TCH 54		
VGSi and descent angles not coincident.				
		3 NM	3 NM	
CATEGORY	A	B	C	D
S-9	7000-3/4 263 (300-3/4)			7000-1 263 (300-1)
CIRCLING	7120-1 360 (400-1)	7220-1 460 (500-1)	7220-1½ 460 (500-1½)	7320-2 560 (600-2)

AL-353 (FAA)

VORTAC OCS <u>116.0</u> Chan 107	APP CRS 255°	Rwy Idg 10000 TDZE 6760 Apt Elev 6760
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VOR/DME RWY 27
ROCK SPRINGS-SWEETWATER COUNTY (RKS)

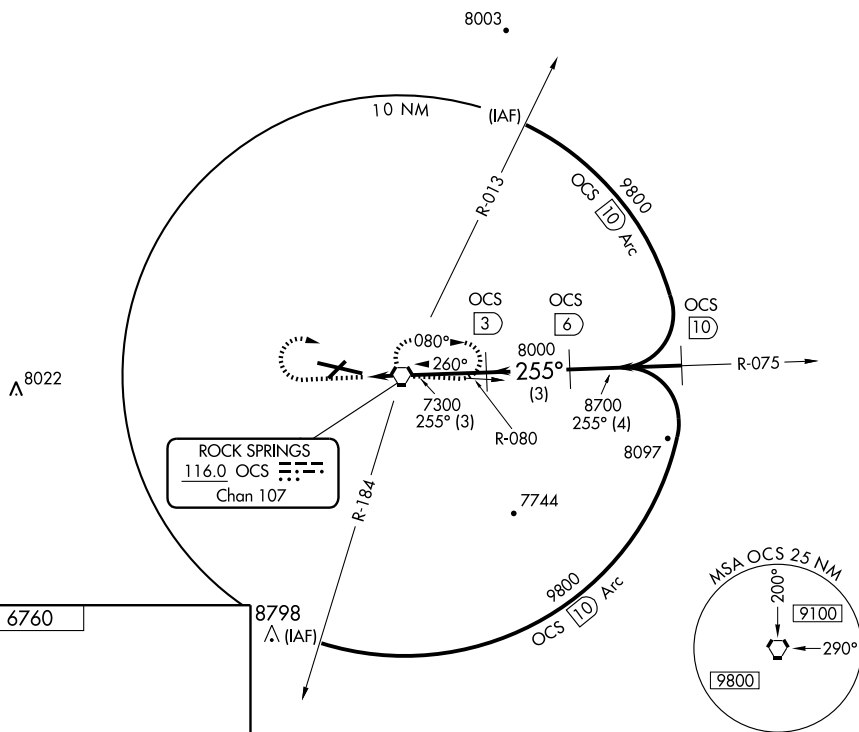
T Inoperative table does not apply to Cat. D.



MISSED APPROACH: Climb to 7700, then climbing right turn to 9100 direct OCS VORTAC and hold.

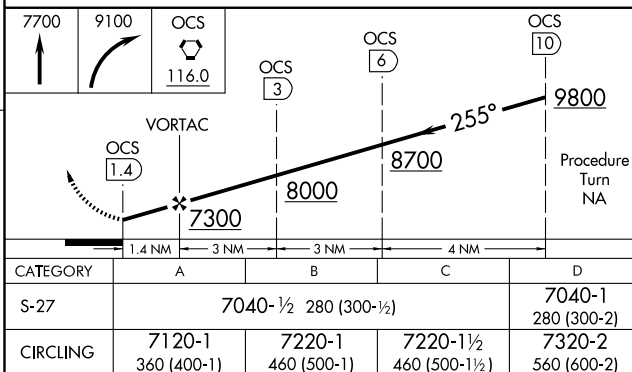
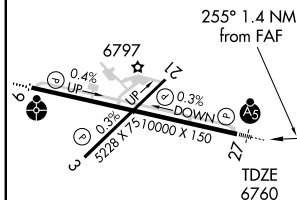
ASOS
118.375

CASPER RADIO
122.6

UNICOM
122.8 (CTAF) **L**

NW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 6760

REIL Rwy 3 and 21 **L**MIRL Rwy 3-21 **L**HIRL Rwy 9-27 **L**

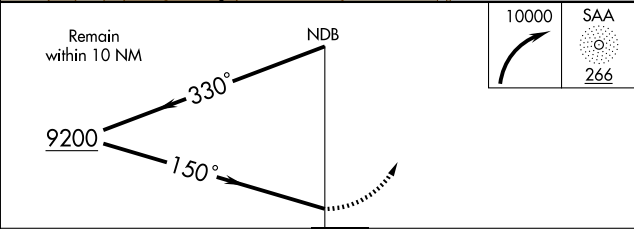
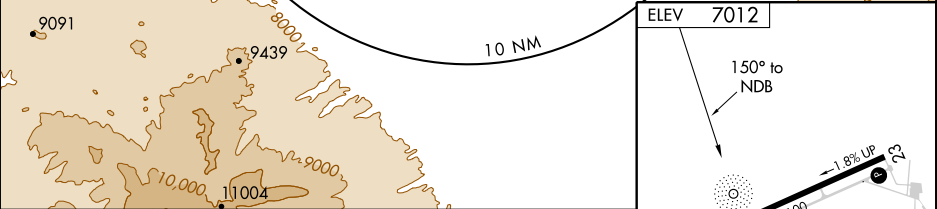
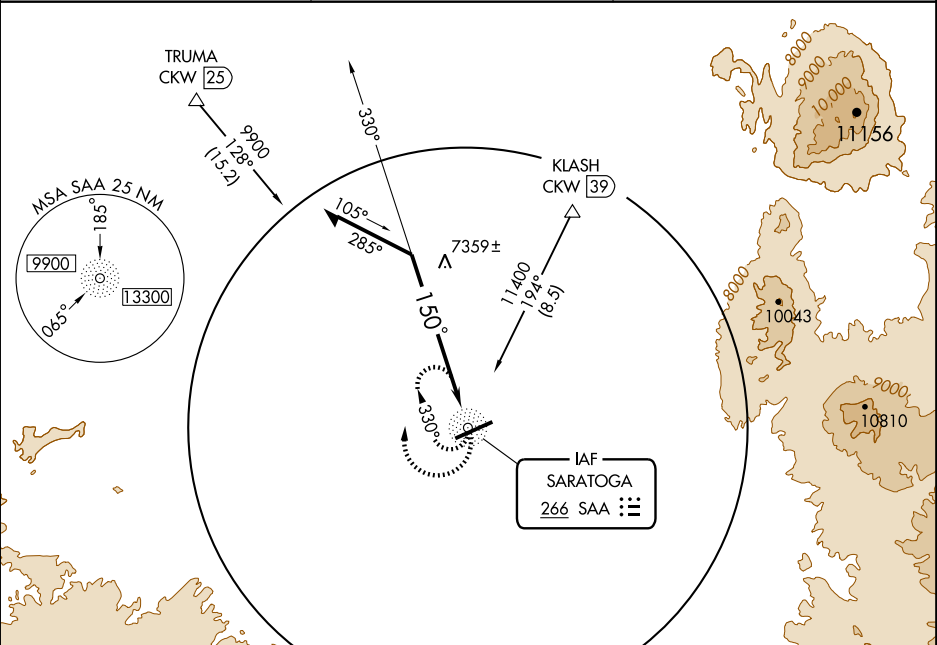
NDB SAA 266	APP CRS 150°	Rwy Idg TDZE Apt Elev N/A N/A 7012
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NDB-A

SARATOGA/ SHIVELY FIELD (SAA)

 NA	If local altimeter setting not received, use Rawlins altimeter setting and increase all MDAs 280 feet.	MISSED APPROACH: Climbing right turn to 10,000 in SAA NDB holding pattern.
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AWOS-3 118.175	DENVER CENTER 132.1 254.35	UNICOM 122.8 (CTAF) 0
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REIL Rwy 23 0
MIRL Rwy 5-23 0

CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	7720-1¼	708 (800-1¼)	7720-2	708 (800-2)	7720-2¼	708 (800-2¼)				

APP CRS 151°	Rwy Idg TDZE Apt Elev N/A N/A 7012
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RNAV (GPS)-B

SARATOGA/ SHIVELY FIELD (SAA)

▼ DME/DME RNP -0.3 NA. If local altimeter setting not received, use Rawlins altimeter setting and increase all MDAs 280 feet.

▲ NA

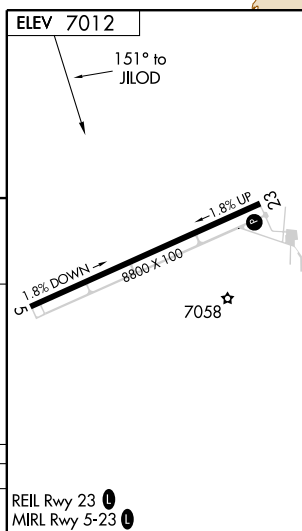
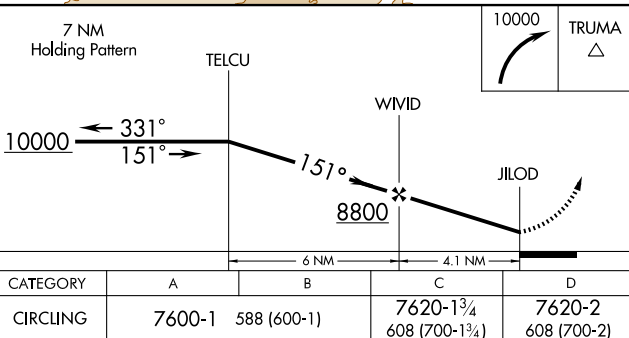
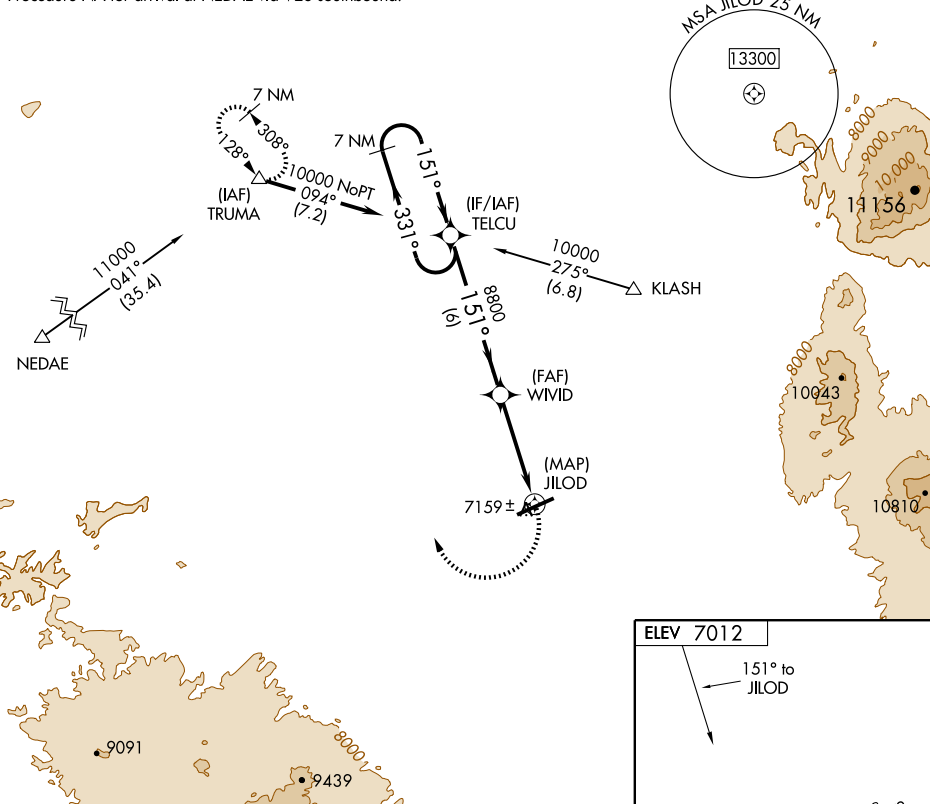
MISSED APPROACH: Climbing right turn to 10,000 direct TRUMA and hold.

AWOS-3
118.175

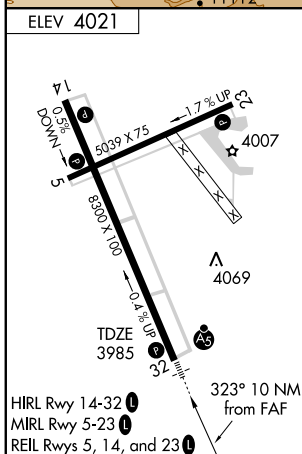
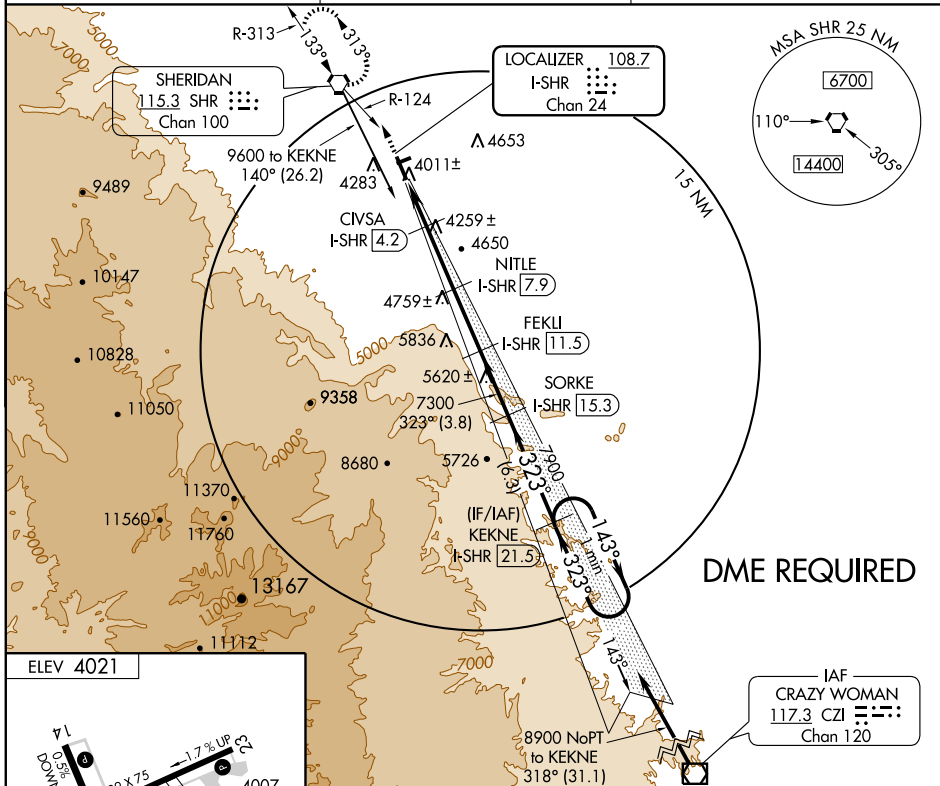
DENVER CENTER
132.1 254.35

UNICOM
122.8 (CTAF) 1

Procedure NA for arrival at NEDAE via V26 southbound.



ASOS 135.175	SALT LAKE CENTER 127.75 351.9	UNICOM 123.0 (CTAF) 0
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[illegible]

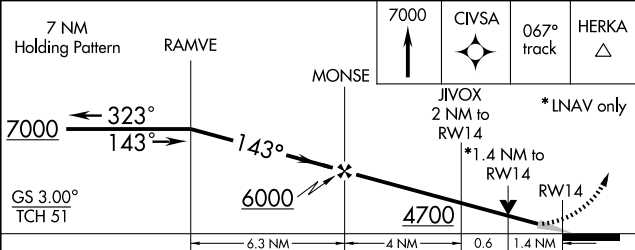
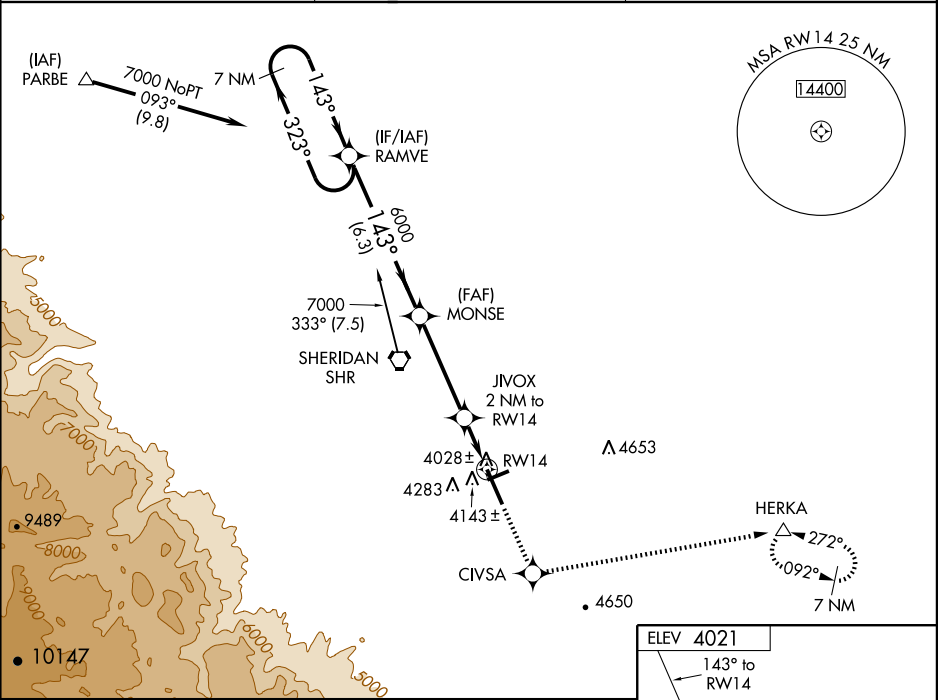
RNAV (GPS) RWY 14
SHERIDAN COUNTY (SHR)

WAAS CH 81899 W14A	APP CRS 143°	Rwy Idg TDZE Apt Elev 8300 4014 4021
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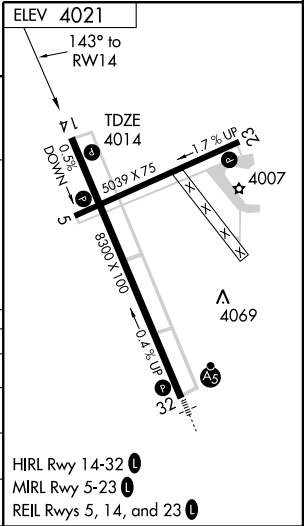
⚠ DME/DME RNP -0.3 NA.
⚠ Baro-VNAV NA below -23°C (-9°F).
When VGSI inoperative, circling Rwy 5 and 23 NA at night.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 7000 direct CIVSA
and via 067° track to HERKA and hold, continue
climb-in-hold to 7000.

ASOS 135.175	SALT LAKE CENTER 127.75 351.9	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA		4264-3/4	250 (300-3/4)	
RNAV/VNAV DA		4419-1 1/2	405 (400-1 1/2)	
RNAV MDA	4500-1	486 (500-1)	4500-1 1/4 486 (500-1 1/4)	4500-1 1/2 486 (500-1 1/2)
CIRCLING	4580-1 1/2 559 (600-1 1/2)	4600-1 1/2 579 (600-1 1/2)	4620-1 1/2 599 (600-1 1/2)	4740-2 1/4 719 (800-2 1/4)



WAAS CH 65699 W32A	APP CRS 323°	Rwy Idg TDZE Apt Elev 8300 3985 4021
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RNAV (GPS) RWY 32
SHERIDAN COUNTY (SHR)

▼ DME/DME RNP- 0.3 NA. Baro-VNAV NA below -23°C (-9°F).

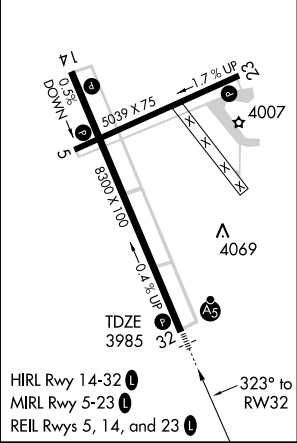
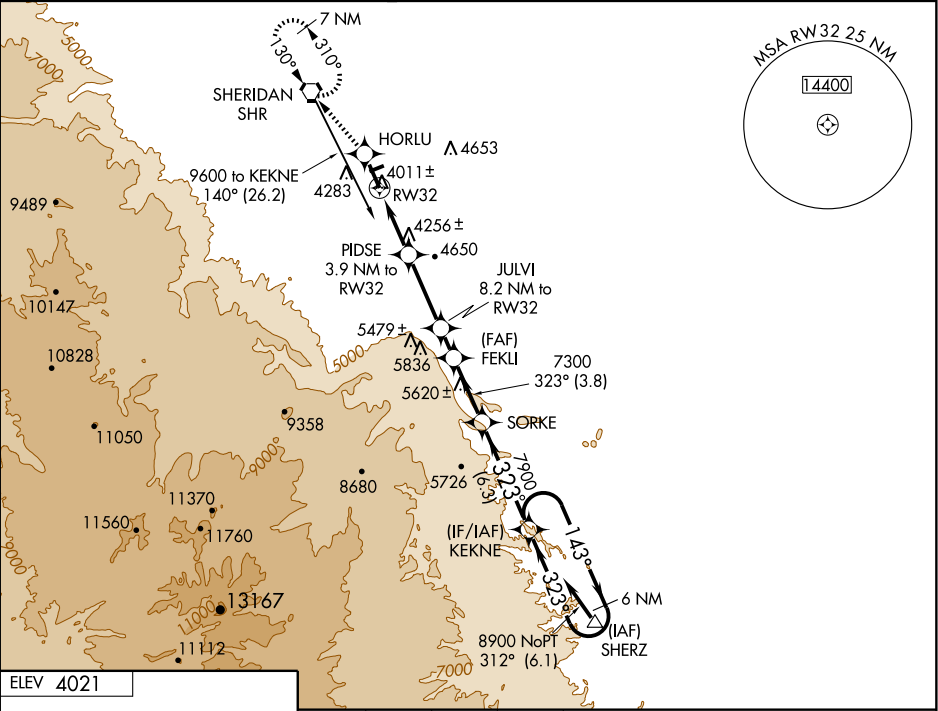
▲ For inoperative MALSR, increase LPV visibility to ¾ all Cats.
When VGSI inoperative, circling Rwy 5 and 23 NA at night.
If local altimeter setting not received, procedure NA.

MALSR



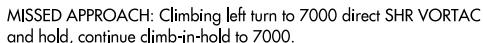
MISSED APPROACH: Climb to 7000 direct HORLU and via 306° track to SHR VORTAC and hold, continue climb-in-hold to 7000.

ASOS 135.175	SALT LAKE CENTER 127.75 351.9	UNICOM 123.0 (CTAF) 
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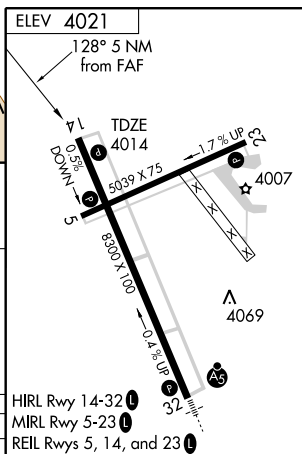


7000	HORLU	306° track	SHR	6 NM Holding Pattern
*LNAV only				
PIDSE 3.9 NM to RW32	JULVI 8.2 NM to RW32	FEKLI	SORKE	KEKNE
*1.5 NM to RW32	5280	6700	7300	8900
1.5	2.4 NM	4.3 NM	1.8 NM	3.8 NM
1.5	2.4 NM	4.3 NM	1.8 NM	3.8 NM
CATEGORY	A	B	C	D
LPV DA	4235-½ 250 (300-½)			
LNAV/VNAV DA	4426-1 441 (500-1)			
LNAV MDA	4520-½ 535 (500-½)	4520-1 535 (500-1)	4520-1¼ 535 (500-1¼)	4520-1¼ 535 (500-1¼)
CIRCLING	4580-1½ 559 (600-1½)	4600-1½ 579 (600-1½)	4620-1½ 599 (600-1½)	4740-2¼ 719 (800-2¼)

VOR RWY 14
SHERIDAN COUNTY (SHR)



UNICOM
123.0 (CTAF) **L**



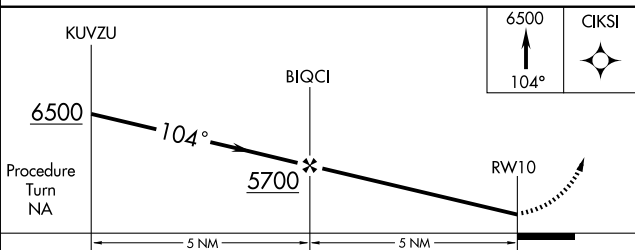
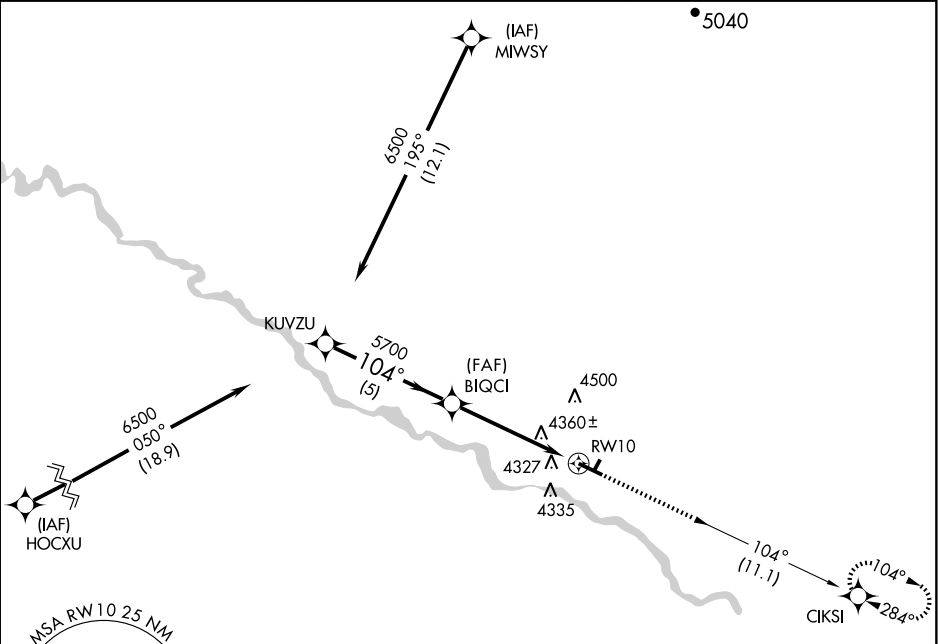
FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

APP CRS	Rwy Idg	5703
104°	TDZE	4205
	Apt Elev	4205

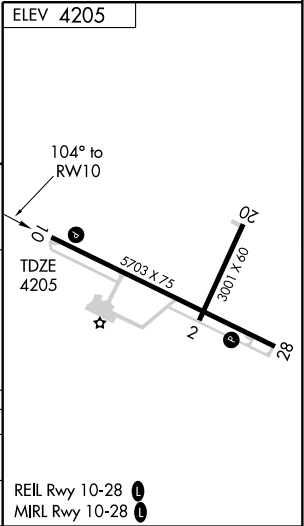
GPS RWY 10
TORRINGTON MUNI (TOR)

NA	MISSED APPROACH: Climb to 6500 via 104° course to CIKSI WP and hold.
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ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF) 0
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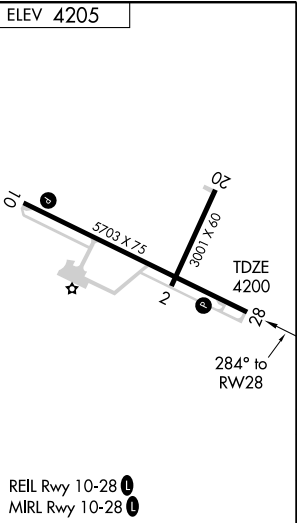
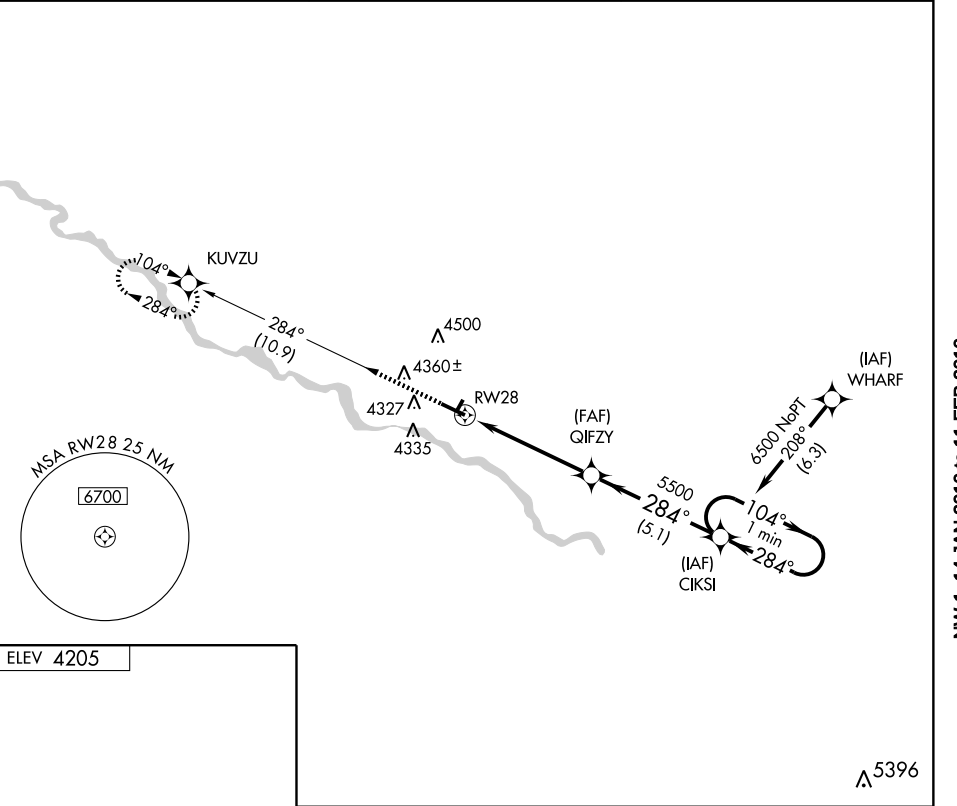
CATEGORY	A	B	C	D
S-10	4660-1	455 (500-1)	4660-1¼ 455 (500-1¼)	4660-1½ 455 (600-1½)
CIRCLING	4680-1	475 (500-1)	4680-1½ 475 (500-1½)	4820-2 615 (700-2)



▲ NA

MISSED APPROACH: Climb to 6500 via 284° course to KUVZU WP and hold.

ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF) 0
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▲ 5396

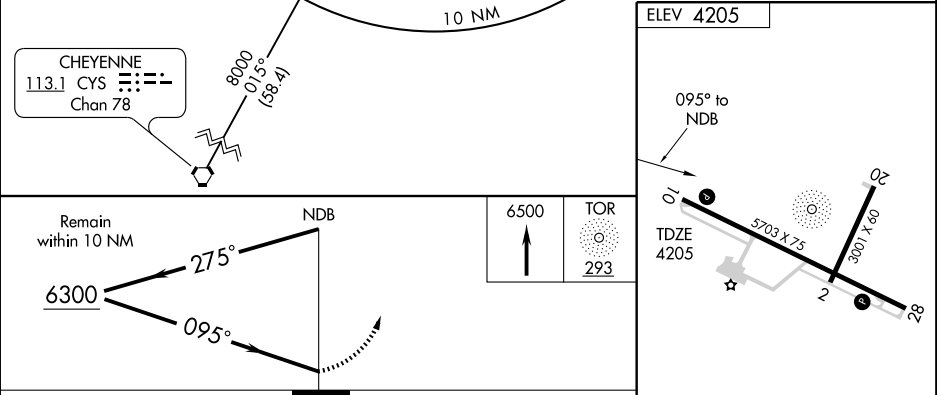
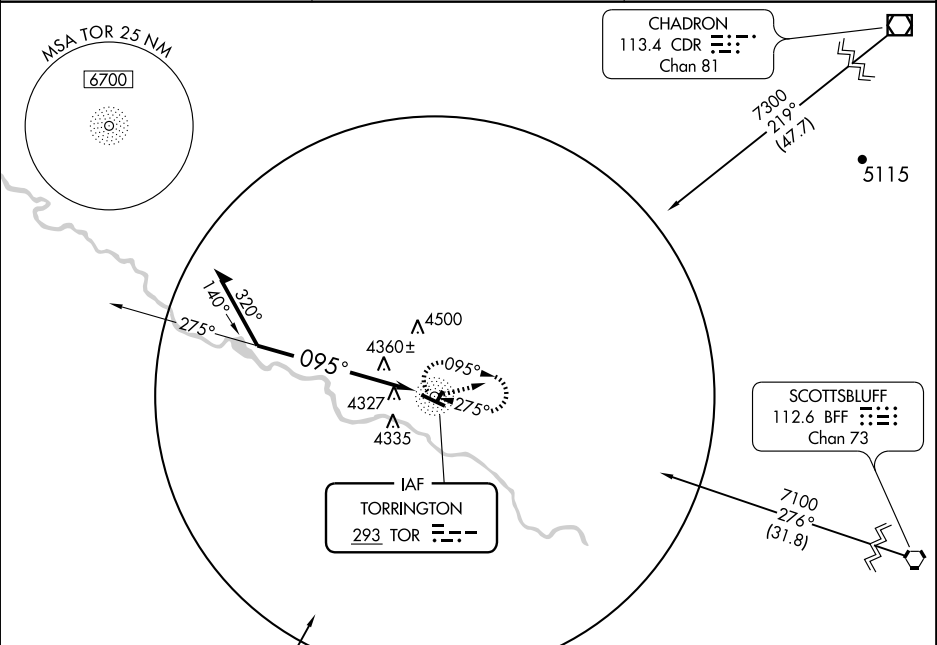
6500	KUVZU	CIKSI	One Minute Holding Pattern	
284°		QIFZY	104° →	6500
	RW28	5500	← 284°	
	5 NM	5.1 NM		
CATEGORY	A	B	C	D
S-28	4620-1	420 (500-1)	4620-1¼	420 (500-1¼)
CIRCLING	4680-1	475 (500-1)	4680-1½ 475 (500-1½)	4820-2 615 (700-2)

NDB RWY 10
TORRINGTON MUNI (TOR)

NDB TOR	APP CRS	Rwy Idg	5703
293	095°	TDZE	4205
		Apt Elev	4205

NA	MISSED APPROACH: Climb to 6500 in TOR NDB holding pattern.
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ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D	REIL Rwy 10-28	MIRL Rwy 10-28
S-10	4940-1	735 (800-1)	4940-2 735 (800-2)	4940-2¼ 735 (800-2¼)		
CIRCLING	4940-1	735 (800-1)	4940-2 735 (800-2)	4940-2¼ 735 (800-2¼)		
Knots						60 90 120 150 180
Min:Sec						

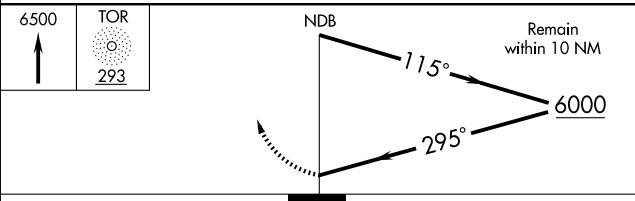
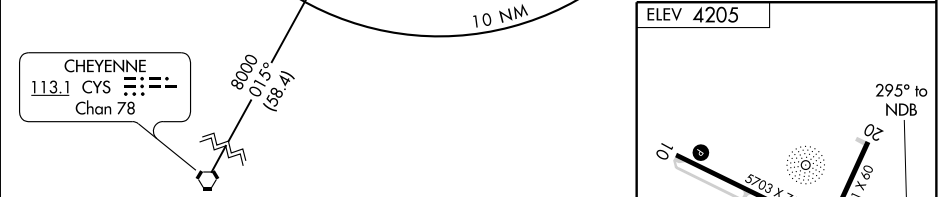
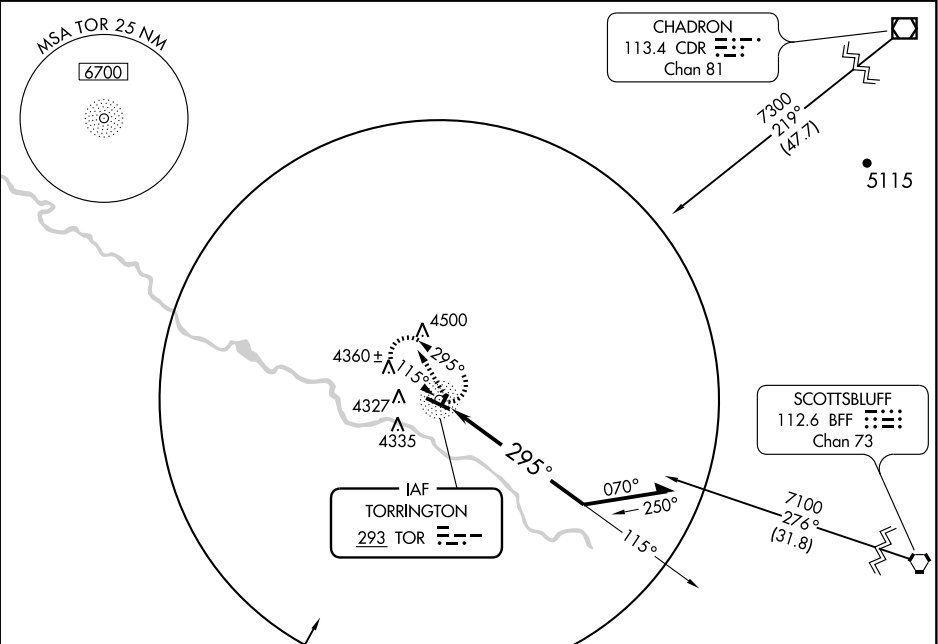
NDB TOR	APP CRS	Rwy Idg	5703
293	295°	TDZE	4200
		Apt Elev	4205

NDB RWY 28

TORRINGTON MUNI (TOR)

NA	MISSED APPROACH: Climb to 6500 in TOR NDB holding pattern.
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ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D	REIL Rwy 10-28	MIRL Rwy 10-28
S-28	4720-1	520 (600-1)	4720-1½ 520 (600-1½)	4720-1¾ 520 (600-1¾)	1	1
CIRCLING	4720-1	515 (600-1)	4720-1½ 515 (600-1½)	4820-2 615 (700-2)		
						Knots
						60 90 120 150 180
						Min:Sec

APP CRS 260°	Rwy Idg TDZE Apt Elev	N/A N/A 4774
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RNAV (GPS)-A

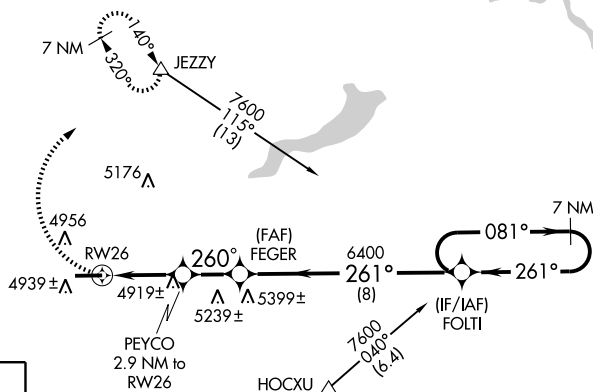
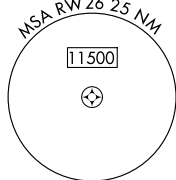
WHEATLAND/ PHIFER AIRFIELD (E.A.N)

▼ DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
▲ NA Use Torrington altimeter setting; when not received, use Western Neb. Rgnl/William B. Heilig Field altimeter setting and increase all MDAs 100 feet and visibility Cats B/C ¼ mile.
 Procedure NA at night.

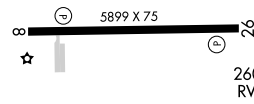
MISSED APPROACH: Climbing right turn to 9000 direct JEZZY and hold, continue climb-in-hold to 9000.

DENVER CENTER
135.6 385.6

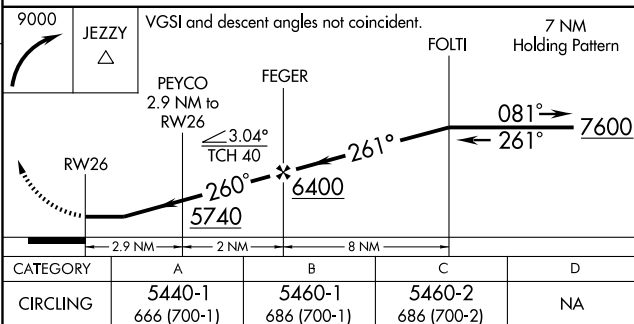
CTAF
122.9



ELEV 4774



▲ 5687



MIRL Rwy 8-26

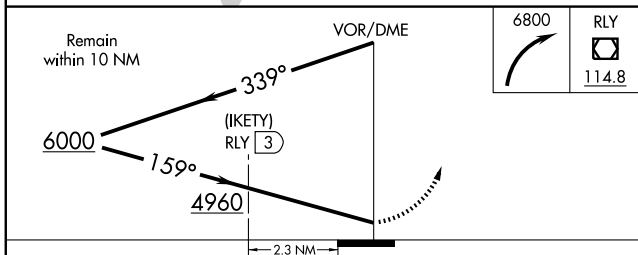
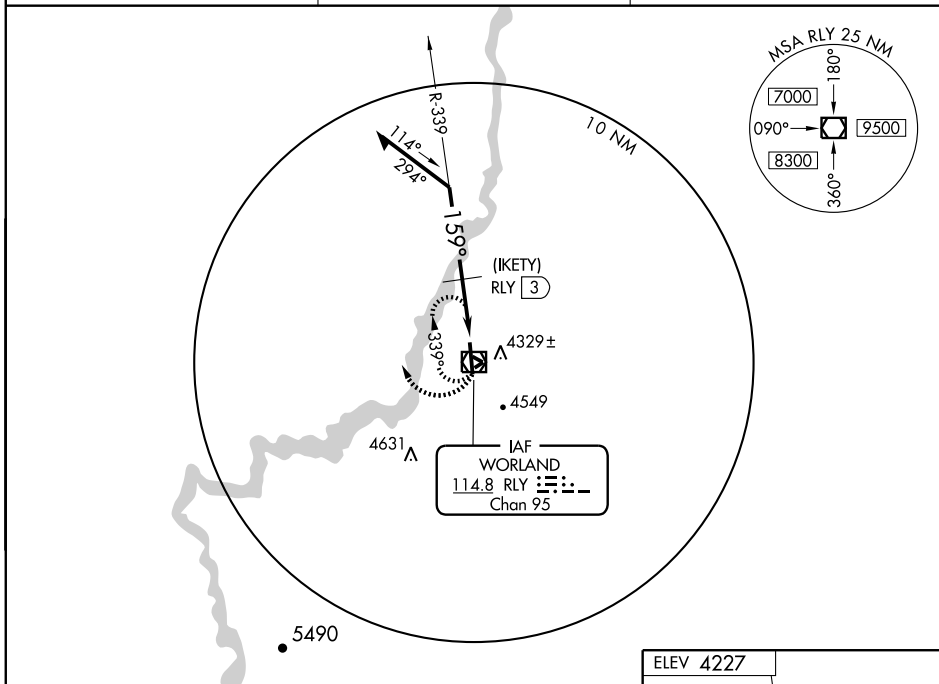
VOR/DME RLY 114.8 Chan 95	APP CRS 159°	Rwy Idg 7005 TDZE 4179 Apt Elev 4227
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VOR or GPS RWY 16
WORLAND MUNI (WRL)



MISSED APPROACH: Climbing right turn to 6800 in RLY VOR/DME holding pattern.

ASOS 135.475	SALT LAKE CENTER 133.25 285.6	UNICOM 123.05 (CTAF) L
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CATEGORY	A	B	C	D
S-16	4960-1 781 (800-1)	4960-1¼ 781 (800-1¼)	4960-2¼ 781 (800-2¼)	4960-2½ 781 (800-2½)
CIRCLING	4960-1 733 (800-1)	4960-1¼ 733 (800-1¼)	4960-2¼ 733 (800-2¼)	4960-2½ 733 (800-2½)

DME MINIMUMS

S-16	4600-1 421 (400-1)		4600-1¼ 421 (400-1¼)	
CIRCLING	4840-1 613 (700-1)	4900-1 673 (700-1)	4900-2 673 (700-2)	4900-2¼ 673 (700-2¼)

